

STRAND ELECTRIC LONDON

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THEATRICAL LIGHTING

May, 1936

This Catalogue cancels all previous issues



STRAND ELECTRIC & ENGINEERING CO., LTD.

"Seecol" Registered Trade Mark

**FLORAL STREET, GARRICK STREET
COVENT GARDEN, LONDON, W.C.2**

Telephone : TEMPLE BAR 7464 (6 lines) Telegraphic Address: SPOTLITE, RAND, LONDON

FOREWORD

THE Directors of the Strand Electric in presenting their latest catalogue are confident that a more complete range of theatrical lighting apparatus cannot be found in the world.

In 1914 the Strand Electric was founded by two theatre engineers, Mr. Arthur T. Earnshaw and Mr. Phillip Sheridan, to fill the need, long evident in this country, for a firm to supply the lighting apparatus and electrical gear peculiar to the theatre. That the need was real is shown by the astounding growth of the firm ever since. In 1918, Mr. M. Mansell, one of the original makers of arc resistances, brought to the firm his experience in the manufacture of electrical apparatus.

British stage lighting apparatus has always been at a disadvantage, principally as the lack of State aid has forced producers to keep production costs down to a minimum. In spite of this, the apparatus manufactured by Strand Electric has steadily improved in quality and design until it can compete with the best American and German gear. It is not the intention of the Directors, who now include Mr. Stanley E. Earnshaw, Mr. John D. Sheridan, and Mr. Hugh M. Cotterill, to rest here. This year they introduced the first product of their newly formed Research Department—the "Light Console." This revolutionary piece of apparatus, praised by American and German experts alike, is but another bid made by Strand Electric to win for Britain, stage lighting supremacy.

This catalogue will be found to differ widely from its predecessor which, with alterations, has been used ever since the foundation of the firm.

The apparatus falls very readily into sections. These are as follows :—

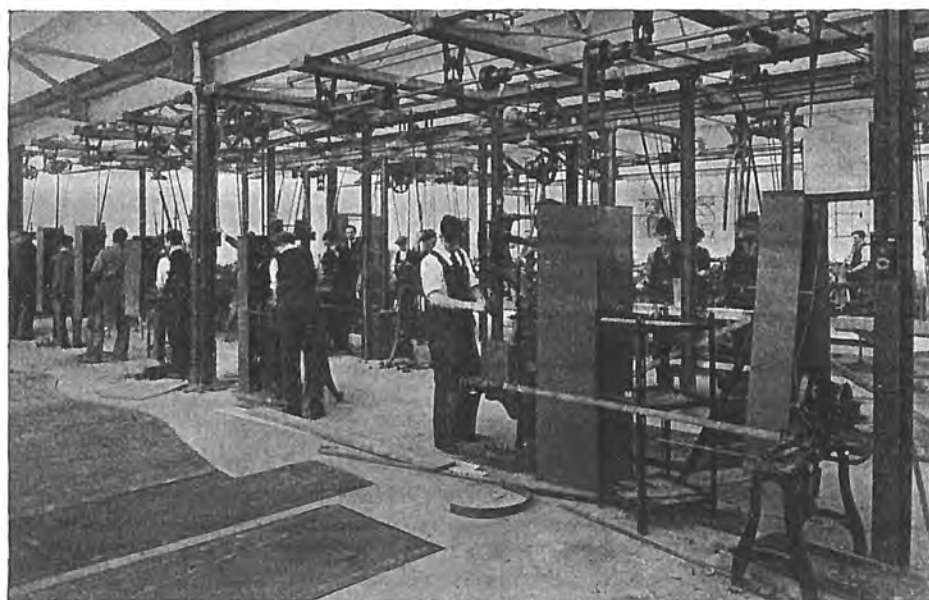
- A. Footlights and Battens. *Pages 12-18*
- B. Stage Floods. *Pages 19-27*
- C. Focus Lanterns, Spotlights, and Accessories. *Pages 28-39*
- D. Arc Spotlights and Resistances. *Pages 40-48*
- E. Cyclorama Lighting. *Pages 49-53*
- F. "Effects" Optical and Sound. *Pages 54-64*
- G. Plugs and Sockets (Dip Boxes, etc.). *Pages 65-67*
- H. Dimmers and Control. *Pages 68-86*
- I. Auditorium Lighting and Automatic Dimmers. *Pages 87-89*
- J. Outdoor Flood Lighting. *Pages 90-95*
- K. Shop Window and Photographic Lighting. *Pages 96-97*
- L. Accessories (Stands, Colour Mediums, Lenses, etc.). *Pages 98-102*
- M. Lamps and Carbons. *Pages 103-106*
- N. Signs. *Pages 107-109*
- O. Hire Charges. *Pages 110-117*

Every endeavour has been made in compiling this catalogue to include all information likely to be of use, while introductory articles to each section give briefly advice as to how the apparatus in that section may best be used.

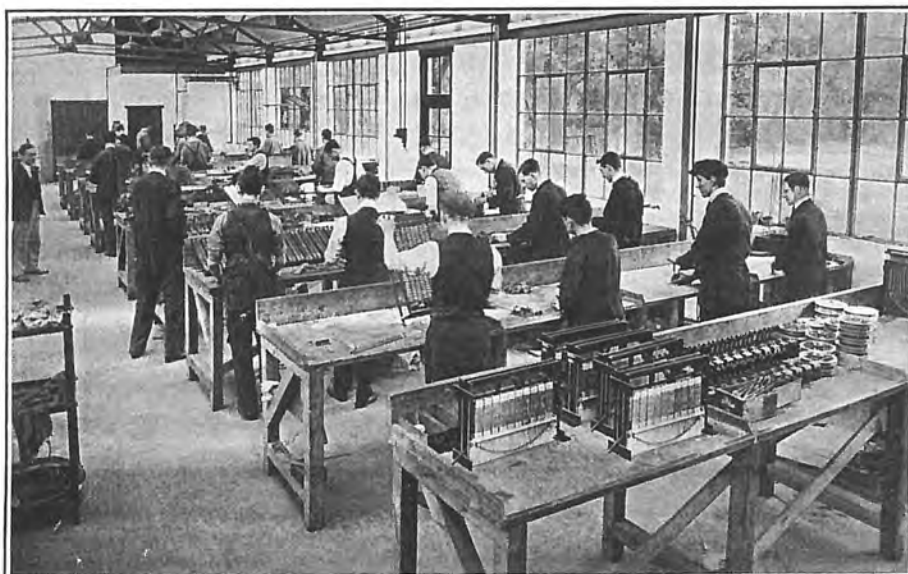


WORKS
AT
POWER ROAD
GUNNERSBURY
LONDON, W.

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EXTERIOR

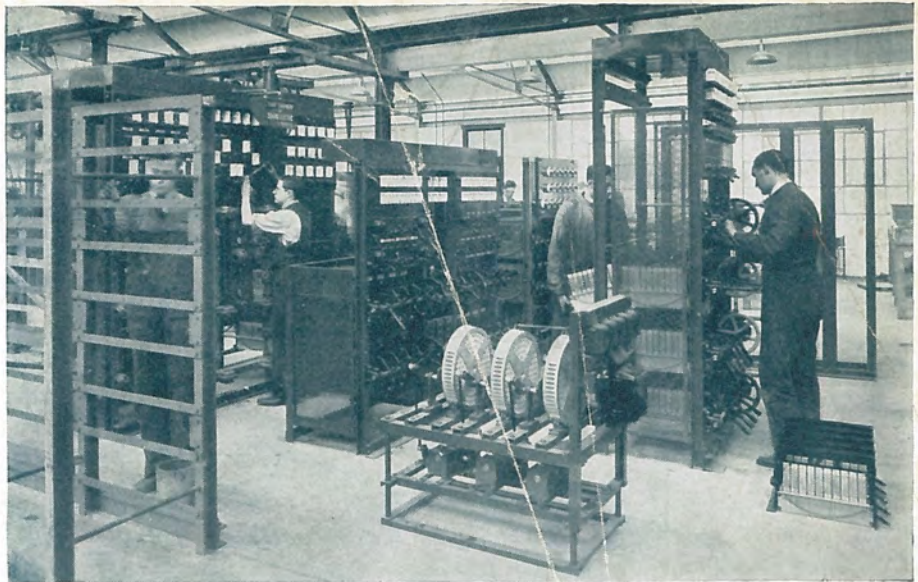


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ENGINEERING
SHOP
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DIMMER AND
RESISTANCE
SHOP
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SWITCHBOARD
ASSEMBLING
SHOP
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SHEET
METAL
SHOP
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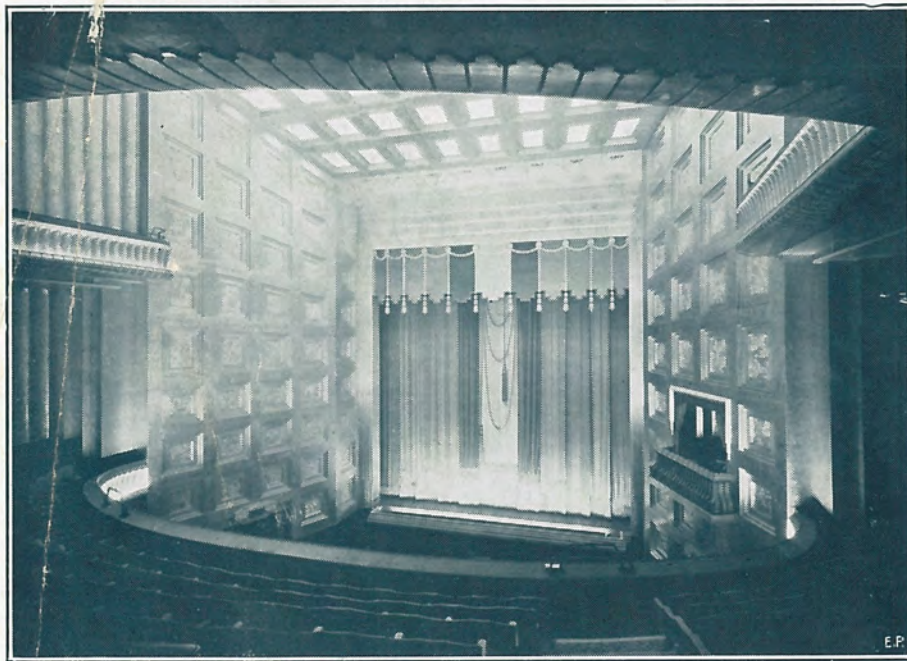
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PAINT
SPRAYING
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THEATRICAL LIGHTING by STRAND ELECTRIC



C. B. COCHRAN'S "MIRACLE" AT THE LYCEUM THEATRE, LONDON
The most Elaborate Piece of Stage Lighting yet attempted on the London Stage. Installation and Equipment by Strand Electric



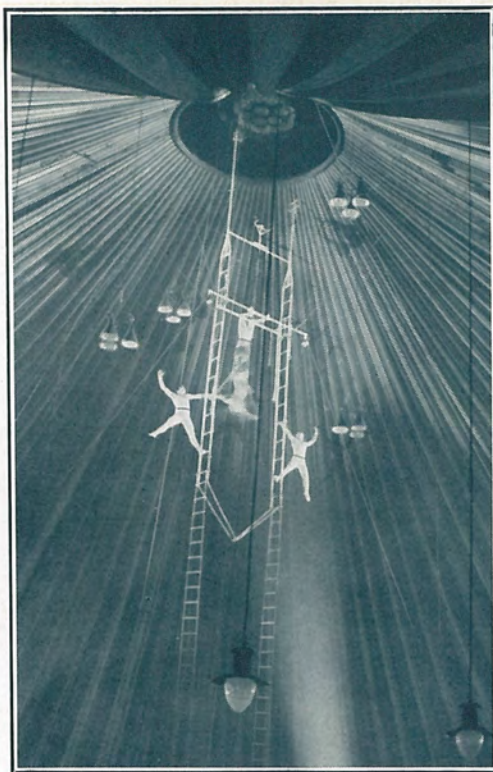
"SAVOY" THEATRE, LONDON
Complete Electric Installation by Strand Electric

Telephone :
Temple Bar 7464 (6 lines).

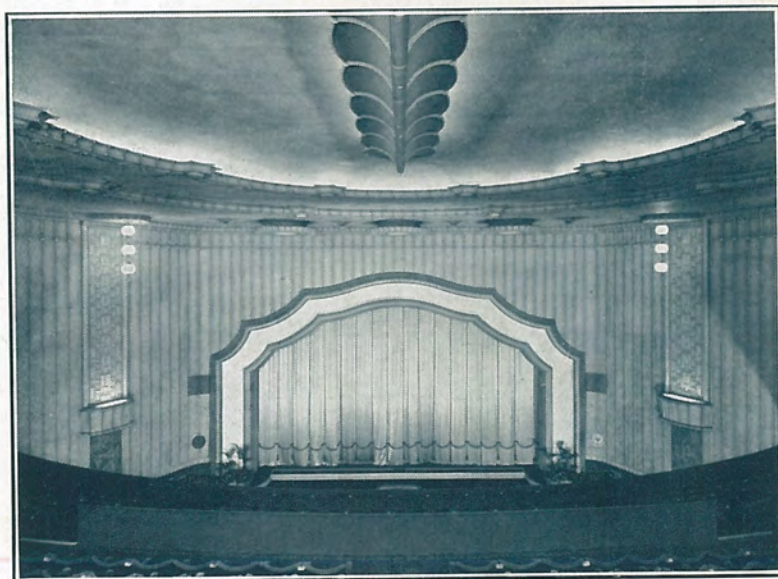
STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

THEATRICAL LIGHTING by STRAND ELECTRIC



BERTRAM MILLS' CIRCUS AT OLYMPIA, LONDON
Strand Electric Ring Lighting



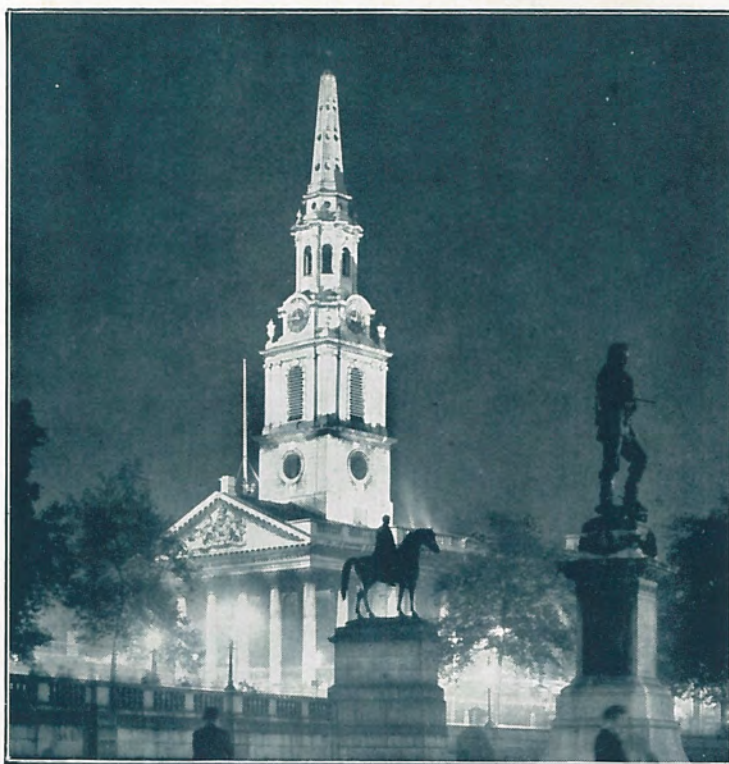
GAUMONT PALACE CINEMA, CHELSEA, LONDON
One of many Gaumont British Houses with Strand Electric Stage Lighting Equipment

Telephone :
Temple Bar 7464 (6 lines).

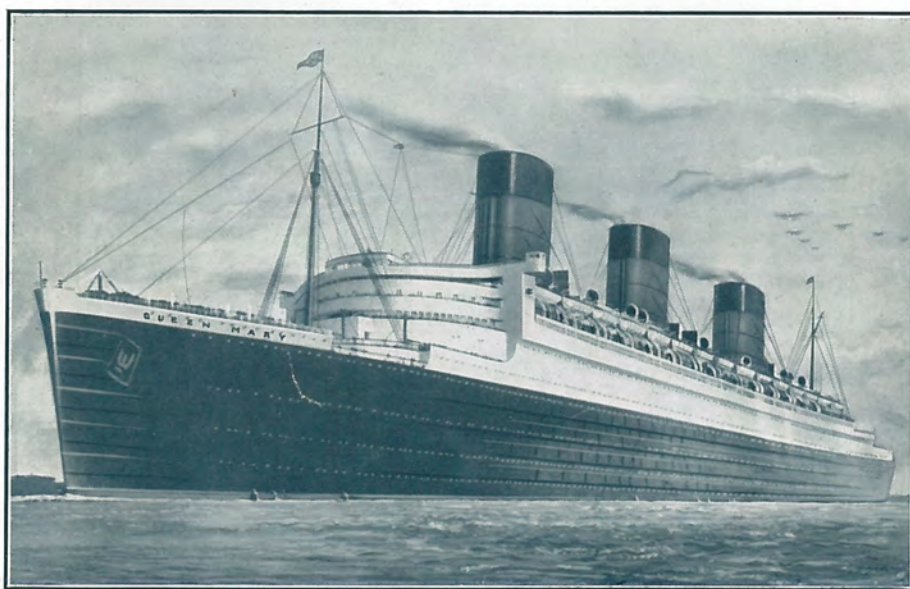
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FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
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THEATRICAL LIGHTING by STRAND ELECTRIC



ST. MARTIN'S-IN-THE-FIELDS, LONDON
The Famous Broadcast Church Floodlit by Strand Electric



R.M.S. "QUEEN MARY"
The two complete Stage Lighting Installations have been supplied by Strand Electric

Telephone :
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THEATRICAL LIGHTING by STRAND ELECTRIC



"FARADAY CENTENARY" EXHIBITION
AT ROYAL ALBERT HALL, LONDON
An Exhibition "Fit Up" by Strand Electric

Other famous Exhibition contracts include The Government Pavilions at Brussels, Buenos Aires, Toronto and Antwerp. Also, extensive work was carried out at the Empire Exhibition at Wembley.



"LOCARNO" DANCE HALL, STREATHAM, LONDON
A Strand Electric Colour Lighting and Electrical Installation

Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

THE STRAND ELECTRIC DEMONSTRATION THEATRE

On March 17th, 1933, Mr. C. B. Cochran declared the Strand Electric Theatre open, and since then it has been continuously in use.

It is a third-full-size model theatre, with seating accommodation for 100 persons. The stage is fully equipped with four-colour battens, footlights, front of house spots, and special effect plugs. At the rear of the stage a plaster cyclorama, 20 ft. wide, with three-colour lighting top and bottom, has been constructed. A full complement of effects projectors is also provided.

Various coloured curtain sets of different materials and sets of scenery are available on which the light can be projected.

The auditorium is fitted with the latest types of colour lighting equipment in various decorative coves.

Control is from the most perfect switchboard in the world, "The Light Console," or from the simplest of all switchboards, the "Chromolux," while music or sound effects can be provided on the very complete Gramophone sound equipment installed.



The Strand Electric Demonstration Theatre. The Light Console is shown on the right

In the seclusion of this theatre most of the famous producers come to see their ideas take shape, without the interruption and confusion of the full-size stage.

All Strand apparatus can be demonstrated under actual working conditions, and colour mediums selected and compared with ease.

The theatre and its staff is at the disposal of societies, student groups, or other interested parties for lecture demonstrations on stage lighting technique, and recitals of colour music on the Light Console. Applications should be addressed to the Secretary.

**HOURS: MONDAYS TO FRIDAYS, 10 a.m.—6 p.m.
AFTER HOURS' APPOINTMENTS CAN BE MADE**

HIRE DEPARTMENT

All the apparatus listed in this catalogue, with one or two minor exceptions, is available for hire at moderate terms. Quotations will be furnished on application. Very large stocks are held of all types of lanterns, and these are supplied complete with lamps, leads, and all accessories. See Pages 110-117.

Strand Electric have been responsible for most of London's big productions, including "Bitter Sweet," "The Miracle," "Cavalcade," "Waltzes from Vienna," "Stop Press," "Radiolympia," "Greenwich Pageant," "Tower Pageant and Tattoo," "Pageant of Parliament," etc., etc.

Special arrangements are made for the hire of complete touring equipments, whatever their size.



"Actresses dressing in a barn"
A Scene from Mr. C. B. Cochran's "Follow the Sun"

HIRE SHOWROOM

The Directors are very proud of their Hire Showroom, not on account of its architectural beauties, but on account of the invaluable service this, "The Old Curiosity Shop" of the lighting world, has rendered to the theatre.



In the showroom are to be found electric properties of all kinds—chandeliers and brackets of all periods including the present day, electric-oil lamps, lanterns, gas brackets, "prop" coal fires, gas fires, electric fires, etc. A wonderful collection that must be seen to be believed.

.. ..

Hours : 9 a.m. till 6 p.m. Saturdays,
9 a.m. till 1 p.m. After hours' appointments can be arranged.

.. ..

Note.—From October until April, inclusive, the Showroom will be open for an extra hour until 7 p.m. on Mondays and Thursdays.

SALES COUNTER SERVICE

It is not generally realised that Strand Electric run a Counter Service for sale of standard electric accessories, as well as the special theatrical lighting gear manufactured by themselves, and listed on the pages of this catalogue.

Why not avail yourself of this service ?

STRAND FOOTLIGHTS and BATTENS

Footlights and Battens, though looked upon by certain producers with disfavour at the moment, have nevertheless an important part to play in the theatre. Rarely is it possible to dispense with them altogether, while for certain types of productions, as in the revue or cinema stage, their importance is paramount. Be that as it may, Strand Electric present their Footlights and Battens with confidence, as being varied enough for any type of stage. Strand Electric claim to have manufactured the first Magazine Battens in this country. They were designed over 14 years ago for the original application of switch-board controlled stage colour lighting, "The Samoiloff Effect." The same battens are still in use at the London Hippodrome.

Strand Electric Footlights and Battens comply with the regulations of the London County Council and all other authorities.

"SUNRAY" MAGAZINE FOOTLIGHT B TYPE, 60, 100 or 150 Watt

Constructed in heavy gauge sheet steel, stove-enamelled white inside, and painted any desired colour outside. Compartments at 7 in. centres, with runners to carry colour frames. Each compartment fitted



with Strand patent "SUNRAY" Glass Reflector, mounted in special spring fixing which ensures correct centring with lamp filament. This reflector is designed to give a wide spread free from "hot spot." The angle of the reflector ensures that when the footlight is positioned as in diagram, not only is the light thrown along the floor

of the stage, but will also travel up the height of the tabs, when closed. Supplied with metal colour frames with wire guards and gelatine colours. China Edison screw lampholders, wired in Rockbestos cable, coloured to correspond to the colour circuits. Connector Box or six-foot connecting tails at either end as required.

PRICE ON APPLICATION

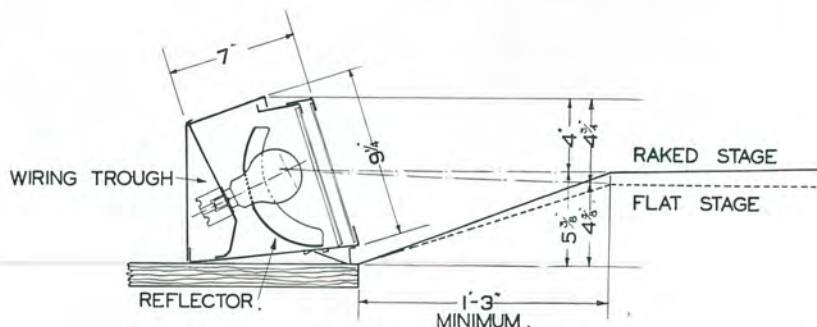
- A 10 Gelatine Colours, cut to size 2s. 0d. per doz.
 A 11 "Chromoid" Colours (see page 98) 8s. 6d. "
 Lamps : 60, 100 or 150 watt Theatre Batten Gasfilled E.S. Caps (see page 105).
 Nett weight per 6 ft. length, 46 lbs.

"SUNRAY" MAGAZINE FOOTLIGHT C TYPE, 60, 100 or 150 Watt

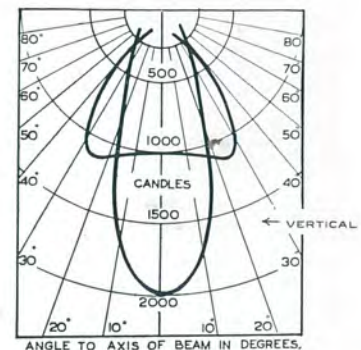
As specification above, but compartments at 8 in. centres.

PRICE ON APPLICATION

- A 12 Gelatine Colours, cut to size 2s. 0d. per doz.
 A 13 "Chromoid" Colours (see page 98) 8s. 6d. "
 Lamps : 60, 100 or 150 watt Theatre Batten Gasfilled E.S. Caps (see page 105).
 Nett weight per 6 ft. length, 46 lbs.



Section of Bor C Type Footlight in position



Polar Curve B Type Float Reflector with 150 watt Lamp

Telephone :
 Temple Bar 7464 (6 lines).

**STRAND ELECTRIC
 AND ENGINEERING CO., LTD.**

Telegraphic Address :
 Spotlite, Rand, London.

FLORAL STREET, COVENT GARDEN, W.C.2

STRAND FOOTLIGHTS and BATTENS

"SUNRAY" DISAPPEARING FOOTLIGHTS

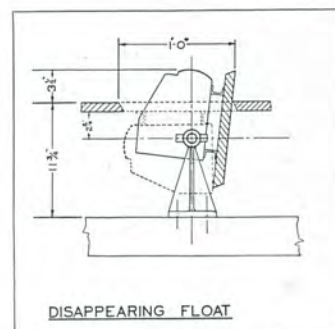
In Repertory Theatres, etc., where the float may not be required for all the scenes in a production, or where an extension "Fore Stage" may be used, it is of great value if the footlight can be made to disappear.

Strand Electric have designed two types of apparatus for use in these situations. In both cases the float discreetly vanishes, leaving the flat stage. The revolving type is more usual where the apparatus is hand operated; such a footlight (the first installed in England) may be seen at the Arts Theatre Club, London; while the lift type is motor driven, as at Drury Lane Theatre. It is also used at the Regal Cinema, Edmonton, in conjunction with the orchestra lifts, so that the orchestra can be converted into a "Fore Stage," thus giving a stage 55 ft. deep.

Our Theatre Lighting Department is prepared to advise and quote on receipt of plans or other details.



Strand Footlight, Drury Lane Theatre, London



Revolving A1 Footlight

"SUNRAY" MAGAZINE FOOTLIGHT A1 TYPE 60, 100 or 150 Watt

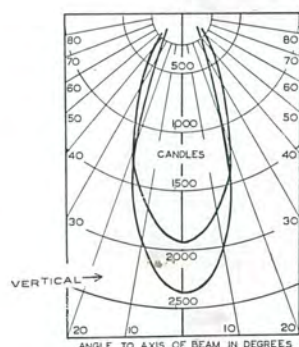
This is a very efficient and compact design, which is eminently suitable for use as a revolving or vertical disappearing float. General construction is as shown below. Specification as for "B" type. Compartments at 6 in. centres, and fitted with Type A1 "SUNRAY" silvered glass reflector, giving wide angle spread of light.

PRICE ON APPLICATION

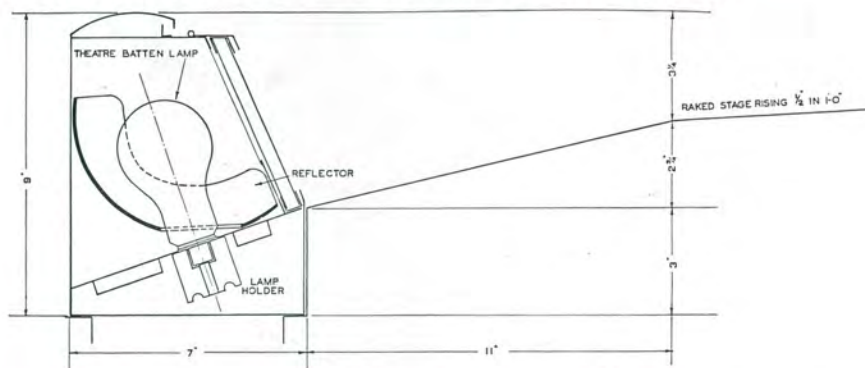
A14 Gelatine Colours, cut to size 1s. 9d. per doz.

A15 Chromoid Colours, cut to size (see page 98) 5s. 0d. ,,

Lamps: 60, 100 or 150 watt Theatre Batten Gasfilled E.S. Caps (see page 105).



Polar Curve A1 Float Reflector with 150 watt lamp



Section of A1 Type Footlight in position

A16 FOOTLIGHT CONNECTION BOX (FITTED TO END OF FOOTLIGHT)

Sheet-steel Footlight Connection Boxes, with D.P. Connectors, for up to 12-ways, mounted on "Sindanyo" Panel, complete with earth connection £1 0 0 each

When ordering, please state which end of footlight Box is to be fitted, i.e., actor's Left or Right.

Telephone :
Temple Bar 7464 (6 lines).

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STRAND FOOTLIGHTS and BATTENS

"SUNRAY" MAGAZINE BATTEN B TYPE, 60, 100 or 150 Watt



Constructed in heavy gauge sheet steel, stove-enamelled white inside, and painted service grey outside. Compartments at 7in. centres, with runners carrying metal colour frames. Each compartment fitted with Strand patent "SUNRAY" Glass Reflector in spring fixing, designed to give narrow angle beam of light, projecting maximum intensity on the acting area, while a secondary low intensity diffused beam illuminates the borders. China E.S. holders, wired in coloured Rockbestos cable. Battens built in sections, fishplated together, complete with shackles, pear rings, and horse-shoes for adjusting tilt.

PRICE ON APPLICATION

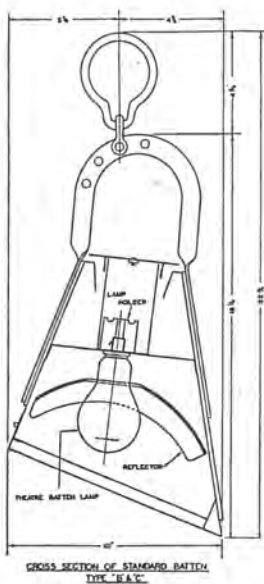
"Sunray" Battens, "His Majesty's" Theatre, London

A 17 Gelatine Colours, cut to size 2s. 6d. per doz.

A 18 "Chromoid" Colours, cut to size (see page 98) ~~8s. 6d.~~ 7/3

Lamps: 60, 100 or 150 watt Theatre Batten Gasfilled E.S. Caps (see page 105).

Nett weight per 6 ft. length, 60 lbs.



BATTEN PILOTS

Pilot Lampholders can be fitted to white compartments at 9/- each extra. On an all-colour batten, an extra compartment is fitted at 12/- extra. 1/4/3

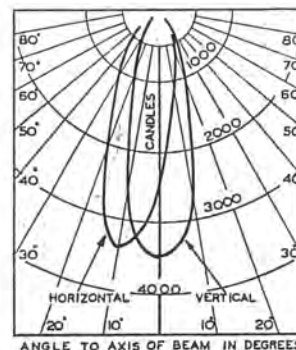
A 19 BATTEN CONNECTION BOX (fitted to end of batten), with D.P. connectors, for up to twelve ways, mounted on "SINDANYO" Panel, complete with earth connection and clamp for multicore asbestos cable.

£1-5-0 1/4/3

When ordering, please state which end of Batten, Box is to be fitted, i.e., actor's Left or Right.

A 20 Batten Connection Boxes for mounting on Wall, Flys, or Grid. Specification as above.

£1-5-0 1/14/0



Polar Curve B Type
Batten Reflector

Telephone :
Temple Bar 7464 (6 lines).

FLORAL

STRAND ELECTRIC
AND ENGINEERING CO., LTD.

STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND FOOTLIGHTS and BATTENS

"SUNRAY" MAGAZINE BATTEN C TYPE, 60, 100 or 150 Watt

As specification for B type, but compartments at 8 in. centres.

PRICE ON APPLICATION

A 21 Gelatine Colours, cut to size 2s. 6d. per doz. ^{5/0}

A 22 "Chromoid" Colours, cut to size (see page 98) 8s. 6d. " ^{6 1/2}

Lamps : 60, 100 or 150 watt Theatre Batten Gasfilled E.S. Caps (see page 105). ^{6 1/2}
 Nett weight per 6 ft. section, 60 lbs.

"SUNRAY" MAGAZINE BATTEN D TYPE, 200 Watt

As specification for B type, but compartments at 10½ in. centres, fitted with type D 200 Circular "SUNRAY" silvered glass reflector. As used at Gaumont Palace, Hammersmith, Lewisham, Wood Green, Chelsea, etc.

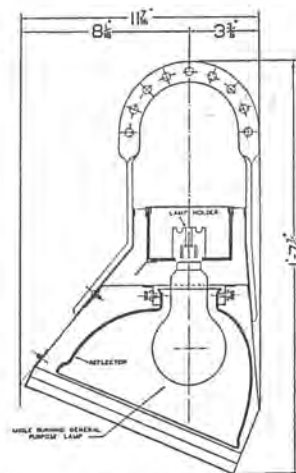
PRICE ON APPLICATION

A 23 Gelatine Colours, cut to size 4s. 3d. per doz. ^{2/0}

A 24 "Chromoid" Colours, cut to size (see page 98) 18s. 0d. ^{4 1/2}

Lamps : 200 watt General Service E.S. Caps (see page 105).

Nett weight per 6 ft. section, 110 lbs.



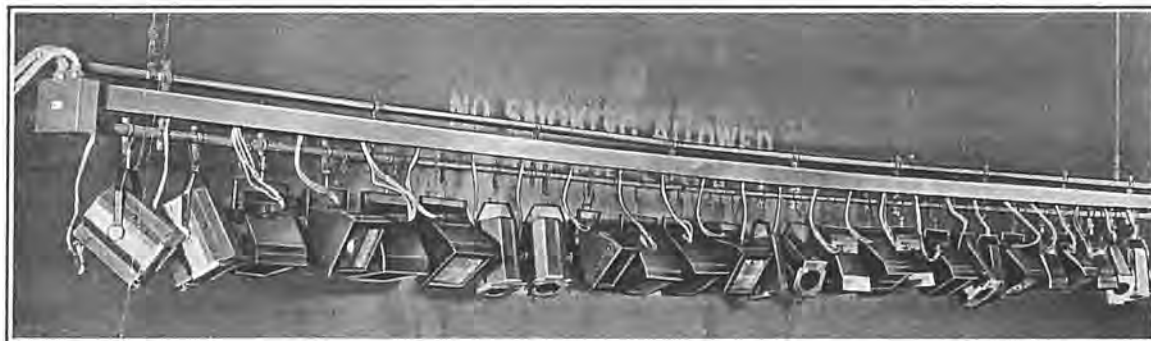
Type D Batten

"SUNRAY" GOLIATH MAGAZINE BATTEN E TYPE, 300 Watt

As specification for B type, but compartments at 10½ in. centres, fitted with type E 300 circular "SUNRAY" silvered glass reflector. As used at the Metropole Cinema, Victoria, etc.

Lamps : 300 watt General Service G.E.S. Caps.

PRICE ON APPLICATION



No. 1 Batten—Covent Garden Opera House

STRAND SPOT AND FLOOD BATTENS

The Spot Batten is very much in favour at the moment, and on most modern stages at least No. 1 Batten takes this form. Some idea of the utility of these battens is given by the fact that with the exception of one scene the whole of Mr. Clifford Whitley's "Stop Press" was lit by Mr. Hassard Short from Spot Battens.

The photograph above is of No. 1 Batten at the Covent Garden Opera House, of which the following is the specification :—
 "No. 1 Batten consists of 48 ft. 1½ in. gas barrel, to which is fixed with 'L' clamps twelve Pattern 43A 1000 watt Batten Spot Lanterns (see page 32), and twenty-four Pattern 30 500 watt Flood Lanterns. Barrel complete with ten clamps to connect on to counterweight rods. On these clamps is fixed a sheet steel trough, carrying the Rockbestos wiring. The Pattern 30's are wired in pairs in the centre and four to each colour on the ends. The Spot Lanterns are wired with a separate circuit to each. The whole of the wiring terminates in a sheet steel twenty-way connector box at 'Actor's Left' end of batten. Box fitted with two cable grips for the asbestos covered multiple cables feeding batten."

Prices for Spot Battens will be forwarded on receipt of customers' requirements.

Telephone :
 Temple Bar 7464 (6 lines).

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AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
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STRAND BATTEN SUSPENSION

SUSPENSIONS FOR BATTENS UP TO 36 ft. LONG

A 25	1½" Gas Barrel (to be 2 ft. longer than batten). (Weight per foot run 3 lbs.)	1s. 3d. per ft.
A 26	Bridles (three required)	13s. 6d. each
A 27	One-way Grid Pulleys (three required)	7s. 0d. "
A 28	Three-way Grid Pulleys (one required)	13s. 3d. "
A 29	5 cwt. Single Drum Winch (one required). (Weight 56 lbs.) ...	£3 7s. 6d. "
Alternatively :—		
A 30	5 cwt. Three-drum Winch (one required). (Weight 65 lbs.) ...	4 7s. 6d. "
A 31	¼" dia. Flexible Steel Wire Line	1 1s. 0d. per 100 ft.
A 32	⅜" dia. ditto	1 3s. 6d. "

NOTE.—If three-drum winch is installed, only ¼" diameter line is required. Both sizes required when single-drum winch is used.

A 33	¼" Bulldog Grips (twelve required)	6d. each
A 34	⅝" ditto (three required)	8d. "
A 35	¼" Thimbles (six required)	3d. "
A 36	⅝" ditto (two required)	4d. "
A 37	Swivel Shackles (one required)	6s. 9d. "

NOTE.—When the three-drum winch is used only the ¼" grips are required. Nine to be used.

SUSPENSIONS FOR BATTENS OVER 36 ft. LONG

A 25	1½" Gas Barrel (to be 2 ft. longer than batten). (Weight per foot run 3 lbs.)	1s. 3d. per ft.
A 26	Bridles (four required)	13s. 6d. each
A 27	One-way Grid Pulleys (four required)	7s. 0d. "
A 38	Four-way Grid Pulleys (one required)	18s. 0d. "
A 39	10 cwt. Single-drum Winch (one required). (Weight 168 lbs.) ...	£5 10s. 0d. "
Alternatively :—		
A 40	10 cwt. Four-drum Winch (one required). (Weight 2 cwts.) ...	7 7s. 0d. "

NOTE.—If four-drum winch is installed, only ¼" diameter line is required. Both sizes required when single-drum winch is used.

A 33	¼" Bulldog Grips (sixteen required)	6d. each
A 34	⅝" ditto (three required)	8d. "
A 35	¼" Thimbles (eight required)	3d. "
A 36	⅝" ditto (two required)	4d. "
A 37	Swivel Shackles (one required)	9s. 0d. "

NOTE.—When the four-drum winch is used only the ¼" grips are required. Nine to be used.

COUNTERWEIGHT ROD SUSPENSION (for use when batten is suspended from existing counterweight lines).

A 41	Counterweight Clips	3s. 6d. each
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ASBESTOS SAFETY BORDER (with tapes for tying on to barrel behind spotlights). L.C.C. Regulations.

A 42	12' 0" x 2' 0" deep	£2 5s. 0d. each
A 43	6' 0" x 2' 0" deep	1 2s. 6d. "

Telephone : Temple Bar 7464 (6 lines).	STRAND ELECTRIC AND ENGINEERING CO., LTD. FLORAL STREET, COVENT GARDEN, W.C.2	Telegraphic Address : Spotlite, Rand, London.
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STRAND FOOTLIGHTS and BATTENS

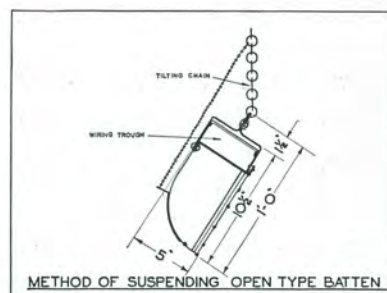
STRAND OPEN TYPE FOOTLIGHTS AND BATTENS

Although these have been supplanted by the modern Magazine type, there are occasions in parish halls and little theatres where price is a prime consideration, and in this case Strand Open Type Footlights and Battens will be found to be a reliable and inexpensive expedient.

The lamps can be arranged at various centres, and the colours can be obtained by lacquered 40 watt vacuum lamps, natural colour glass or colour sprayed lamps.



Open Type Foot



Section, Open Type Batten

FOOTLIGHT

Hooded pattern Open Type Footlight, stove-enamelled white inside, and painted service grey outside. Constructed of lead-coated steel, fitted with porcelain B.C. holders and wire guards. Wired for two or three colour circuits, and complete with end connection box.

PRICE	A 44	12" Centres	...	...	...	13s. 6d.	per ft.	} Net weight per ft. 3 lbs. approx.
	A 45	9"	"	...	...	15s. 0d.	"	
	A 46	6"	"	...	...	16s. 9d.	"	
	A 47	4"	"	...	...	18s. 6d.	"	

BATTEN

Similar construction to above, complete with necessary suspension chains.

PRICE	A 48	12" Centres	...	...	...	16s. 9d.	per ft.	} Net weight per ft. 5 lbs. approx.
	A 49	9"	"	...	...	18s. 6d.	"	
	A 50	6"	"	...	...	19s. 3d.	"	
	A 51	4"	"	...	...	21s. 0d.	"	

When ordering, please state number of circuits to be wired and which end of the unit the connection box is to be fitted, i.e., Actor's Left or Actor's Right.

BATTEN CONNECTING TAILS

Number of ways dependent on number of sub-circuits, the loading of which must comply with the Regulations of the Institution of Electrical Engineers, and other authorities.

SPECIFICATION

Tinned copper wires, insulated with a double jacket of vulcanized indiarubber, taped with numbered tapes, cores twisted together, taped, asbestos braided, and asbestos painted overall.

				70/0076					
Core				Amps.		Price per yd.		Price per 100 yds.	
A 52	10	...	...	10	...	3s. 9d.	...	£18	5 0
A 53	15	...	...	9	...	5s. 0d.	...	24	13 10
A 54	19	...	...	8	...	5s. 9d.	...	28	14 2
A 55	25	...	...	7	...	7s. 6d.	...	36	12 8
				110/0076					
A 56	10	...	...	15	...	4s. 6d.	...	£21	15 8
A 57	15	...	...	14	...	6s. 0d.	...	30	0 0
A 58	19	...	...	13	...	7s. 6d.	...	37	0 0

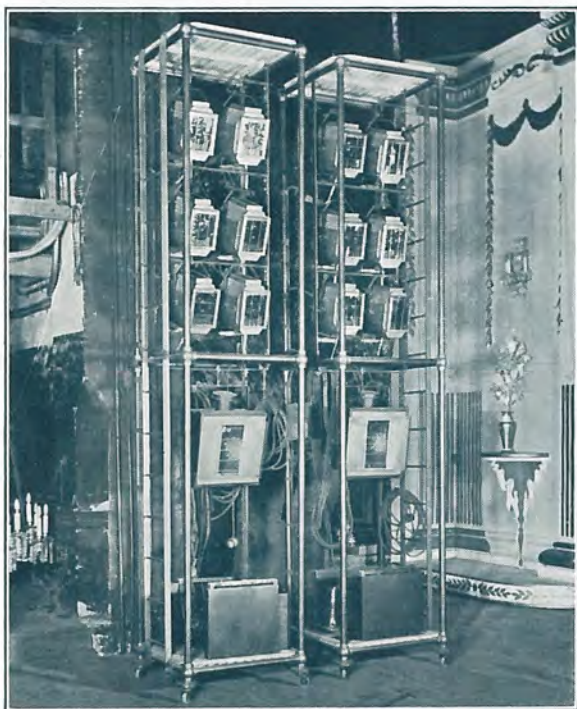
Subject to Market Fluctuations

Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND STAGE FLOODS



Strand Lighting Towers, as used by Mr. Hassard Short in his productions of "Waltzes from Vienna" at Alhambra Theatre, and "Wild Violets" at Drury Lane Theatre, London

The stage flood is the most important piece of portable apparatus used in the theatre.

STRAND stage floods fall into two categories, the medium angle and the wide angle. Generally speaking, the former are more applicable to Cinema stages, where it may be necessary to throw a beam (for side lighting of curtains) across a stage 40 ft. to 60 ft. wide. In the Theatre, however, where back-cloths and backings have to be illuminated evenly from close range, the wide angle flood meets the case.

All STRAND stage floods incorporate silvered glass reflectors of various shapes, designed for the purpose in view. The patent reflectors are constructed of "SUNRAY" glass which gives maximum brilliance, absolutely free from filament striation. These are carried in special sprung fixings, and breakage under working conditions is negligible.

To ensure accurate beam control, STRAND floods are finished matt black inside, cutting down stray light to the minimum.

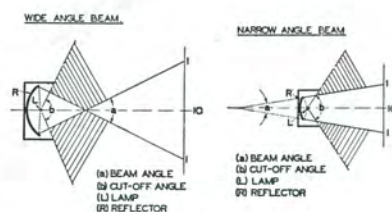
The characteristics of each flood can be found in :—

(A) The "Beam Angle." This is the angle within which the useful light is concentrated. It is defined in the case of a symmetric floodlight as the total angular width between the limits at which the illumination produced on a surface at right angles to the axis of the beam is one-tenth of the maximum.

(B) The "Cut-off Angle." This is the angle of the direct light from the lamp, and is determined by the edges of the lantern. This light is of low intensity. In some cases spill rings are fitted to the front of the lantern to mask out this stray light.

Two polar curves are given to each lantern, one plotted on polar co-ordinates, the other on rectangular co-ordinates. These show the light distribution and the relative intensity of the light given by the various reflectors.

STRAND stage floods may be used either with a telescopic stand or suspended. The forks are fitted with $4\frac{1}{2}$ in. $\times$ $\frac{1}{2}$ in. threaded stem and two hexagonal nuts and split pin, as standard. These should be removed if a stand is used.



Beam Angle Diagram

Telephone :
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC
AND ENGINEERING CO., LTD.**
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND STAGE FLOODS



PATTERN 30 BATTEN FLOOD 500 Watt

This lantern gives a *medium angle* beam of light, suitable for illuminating objects situated some distance from it.

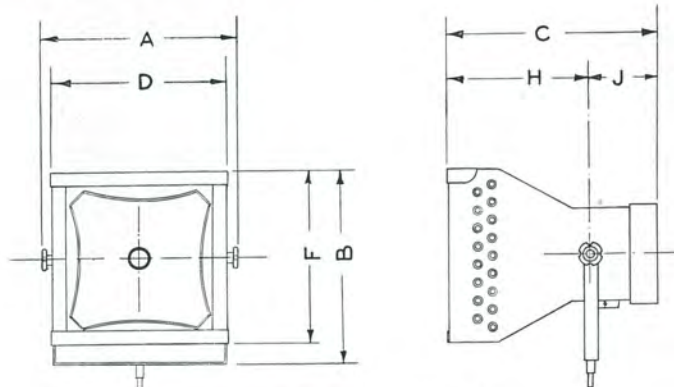
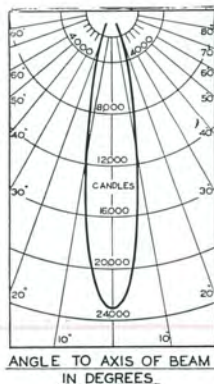
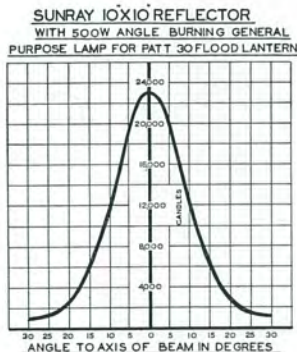
SPECIFICATION

Lantern constructed in lead-coated steel, efficiently ventilated. Fitted with runners to take two millboard colour frames, hinged flap at top. One-piece Type 30 silvered glass "SUNRAY" reflector. Tilting fork and 3 in. diameter locking wheels. 10 amp. plug with earth connection and clip. Finish, black enamel outside, matt black inside.

PRICE (exclusive of Lamp) ... **£3 3 0**

£ s. d.

- B 60 Light Telescopic Stand (Min. height 4 ft. 3 in.
Max. 7 ft.) ... **1 2 6** each
- B 61 Linen-bound millboard colour frames
(11 $\frac{3}{4}$ in. x 11 $\frac{3}{4}$ in.) **0 9 0** per doz.
- B 62 Ditto, with assorted gelatines ... **0 15 0** ,,
- B 63 Ditto, with assorted "Chromoid" colours (see
page 98) ... **2 5 0** ,,
- B 64 Safety chain with snap hook (for use when
lantern is suspended) ... **0 2 0** each
- B 65 "L" clamp for 1 $\frac{1}{2}$ in. barrel ... **0 2 6** ,,



DIMENSIONS. PATTERN 30

	Ft.	In.		Ft.	In.
A ...	1	4	F ...	1	0 $\frac{1}{2}$
B ...	1	1	H ...	10	1 $\frac{1}{2}$
C ...	1	3	J ...	4	1 $\frac{1}{2}$
D ...	1	0 $\frac{1}{2}$			

Nett weight of Lantern, 15 lbs.

Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND STAGE FLOODS

PATTERN 60 WING FLOOD, 500 Watt



This lantern gives a *wide angle* beam of light, free from "hot spot." Suitable for illuminating backings, and small back-cloths at close range.

SPECIFICATION

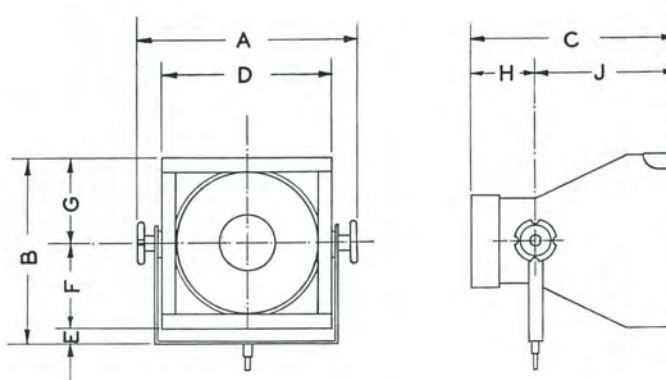
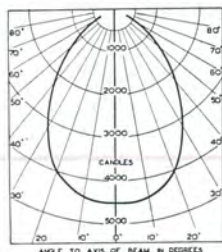
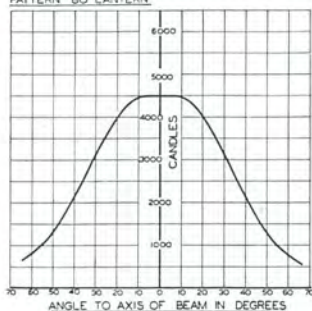
Lantern constructed in lead-coated steel, efficiently ventilated. Runners to take two millboard colour frames, hinged flap at top. One-piece Type No. 35 silvered glass "SUNRAY" reflector. Tilting fork and 3 in. diameter locking wheels. 10 amp. plug, with earth connection and clip. Finish: black enamel outside, matt black inside.

PRICE (exclusive of Lamp) ... **£3 3 0**

		£	s.	d.
B 60	Light Telescopic Stand	1	2	6 each
	(Min. height 4 ft. 3 in. Max. 7 ft. 0 in.)			
B 61	Linen-bound millboard colour frames (11 $\frac{3}{4}$ in. x 11 $\frac{3}{4}$ in.)	0	9	0 per doz.
B 62	Ditto, with assorted gelatines	0	15	0 "
B 63	Ditto, with assorted "Chromoid" colours	2	5	0 "
B 64	Safety chain with snap hook (for use when lantern is suspended)	0	2	0 each
B 65	"L" clamp for 1 $\frac{1}{2}$ in. barrel	0	2	6 "

Lamp: 500 watt Angle Burning General Service. G.E.S. Cap (see page 105).
Beam Angle 100°. Cut Off Angle 105°.

"SUNRAY" ARENA REFLECTOR
WITH 500W ANGLE BURNING GENERAL PURPOSE
LAMP
PATTERN 60 LANTERN



DIMENSIONS. PATTERN 60

	Ft.	In.		Ft.	In.
A ...	1	4	F ...	1	0 $\frac{1}{2}$
B ...	1	1	H ...	10	$\frac{1}{2}$
C ...	1	3	J ...	4	$\frac{1}{2}$
D ...	1	0 $\frac{1}{2}$			

Nett weight of Lantern, 15 lbs.

Telephone:
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address:
Spotlite, Rand, London.

STRAND STAGE FLOODS



PATTERN 49 WING FLOOD, 1000 Watt

This lantern gives a *medium angle* beam of light, suitable for illuminating objects situated some distance from it.

SPECIFICATION

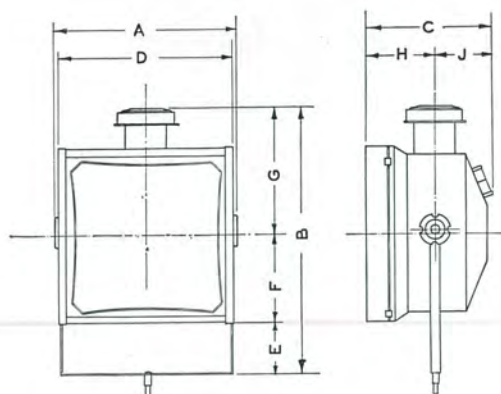
Lantern constructed in lead-coated steel, efficiently ventilated. Fitted with runners to take two metal colour frames, hinged sprung flap each side. One-piece Type 49 silvered glass "SUNRAY" reflector. Tilting fork and 3in. diameter locking wheels. 10 amp. plug with earth connection and clip. Finish: black enamel outside, matt black inside.

PRICE (exclusive of Lamp) ... £4 12 6

		£	s.	d.	
B 66	Heavy Telescopic Stand	1	7	6	each
	(Min. height 4 ft. 3 in. Max. 7 ft. 0 in.)				
B 67	Metal colour frames (16 $\frac{3}{4}$ in. x 16 $\frac{3}{4}$ in.)	1	7	6	per doz.
B 68	Ditto, with assorted gelatines	2	2	0	,,
B 69	Ditto, with "Chromoid" colours (see page 98)	3	18	6	,,
B 64	Safety chain with snap hook (for use when lantern is suspended)	0	2	0	each
B 65	"L" clamp for 1 $\frac{1}{2}$ in. barrel	0	2	6	,,

Lamp: 1000 watt Angle Burning General Service. G.E.S. Cap.

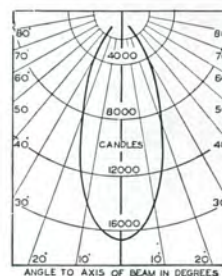
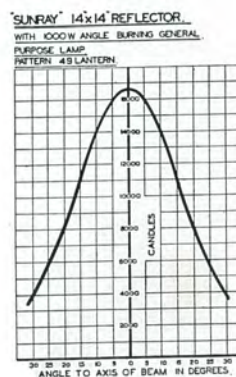
Beam Angle 64°. Cut Off Angle 105°.



DIMENSIONS PATTERN 49

	Ft.	In.
A ...	1	6
B ...	2	2 $\frac{1}{2}$
C ...	11	1 $\frac{1}{2}$
D ...	1	5
E ...	5	
F ...	8	1 $\frac{1}{2}$
G ...	1	1
H ...	7	
J ...	4	1 $\frac{1}{2}$

Nett weight of Lantern,
24 lbs.



Telephone:
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC
AND ENGINEERING CO., LTD.**
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address:
Spotlite, Rand, London.

STRAND STAGE FLOODS

PATTERN 49 A WING FLOOD 1000 Watt

This lantern gives a *wide angle* beam of light, free from "hot spot." Suitable for illuminating back-cloths, etc., at close range.

SPECIFICATION

Lantern constructed in lead-coated steel, efficiently ventilated. Runners to take two metal colour frames, hinged sprung flap each side. Four-piece Type 49A silvered glass "SUNRAY" reflector. Tilting fork and 3 in. diameter locking wheels. 10 amp. plug with earth connection and clip. Finish: black enamel outside, matt black inside.

PRICE (exclusive of Lamp) ... £4 12 6

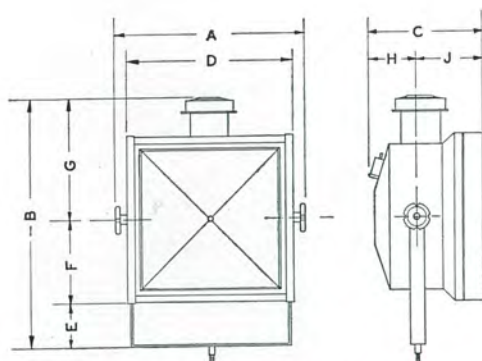
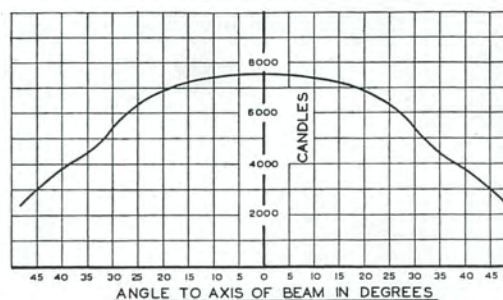
			£	s.	d.	
B 66	Heavy Telescopic Stand ...	...	1	7	6	each
	(Min. height 4 ft. 3 in. Max. 7 ft. 0 in.)					
B 67	Metal Colour Frames (16 $\frac{3}{4}$ in. x 16 $\frac{3}{4}$ in.)	...	1	7	6	per doz.
B 68	Ditto, with assorted gelatines	...	2	2	0	„
B 69	Ditto, with assorted "Chromoid" colours (see page 98)	...	3	18	6	„
B 64	Safety chain with snap hook (for use when lantern is suspended)	...	0	2	0	each
B 65	"L" clamp for 1 $\frac{1}{2}$ in. barrel	...	0	2	6	„



Lamp: 1000 watt Angle Burning General Service. G.E.S. Cap.

Beam Angle 100°. Cut Off Angle 105°.

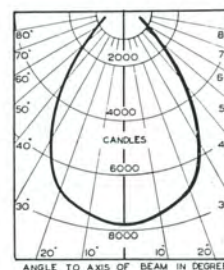
SUNRAY PATT 49A & B FLOOD REFLECTOR WITH 1000W ANGLE BURNING GENERAL PURPOSE LAMP



DIMENSIONS. PATTERN 49A

	Ft.	In.		Ft.	In.		Ft.	In.
A ...	1	6	D ...	1	5	G ...	1	1
B ...	2	2 $\frac{1}{2}$	E ...	5		H ...	7	
C ...	11	1 $\frac{1}{2}$	F ...	8	1 $\frac{1}{2}$	J ...	4	1 $\frac{1}{2}$

Nett weight of Lantern, 27 lbs.



**STRAND ELECTRIC
AND ENGINEERING CO., LTD.**

Telephone :
Temple Bar 7464 (6 lines).

FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND STAGE FLOODS

PATTERN 56 ACTING AREA FLOOD, 1000 Watt



This lantern gives a *narrow angle* vertical beam, the direct rays from lamp are cut off by spill-rings, obviating any ghost. It is suitable for lighting acting areas in conjunction with a cyclorama, boxing rings, etc. Seven of these lanterns, at a height of over 70 ft., provide the illumination of the platform at the Queen's Hall, London.

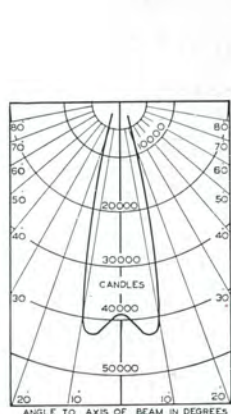
SPECIFICATION

Lantern constructed in lead-coated steel, efficiently ventilated. Fitted with spill-rings, hinged to allow access to lamp. Underside of lantern equipped with removable circular metal colour frame. Three-piece Type 56 domed "SUNRAY" silvered glass reflector. Tilting fork and 3 in. diameter locking wheels. Wired with 2 ft. rockbestos tails. Finish : black enamel outside, matt black inside.

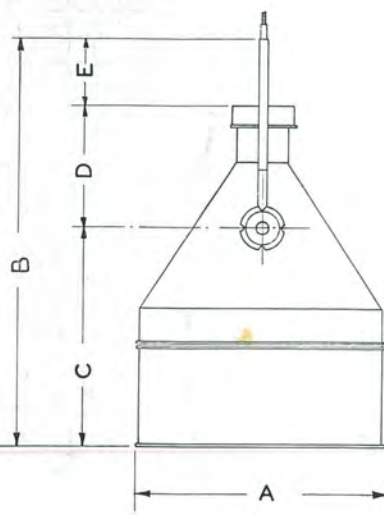
PRICE (exclusive of Lamp) ... £6 0 0

							£	s.	d.
B 70	Extra 16 in. diameter metal colour frames	...	...	...	...	...	0	3	6 each
B 71	Gelatine colours, cut to size	...	...	...	...	...	0	12	0 per doz.
B 72	"Chromoid" colours, cut to size (see page 98)	...	...	...	...	...	1	14	0 "
B 64	Safety chain with snap hook	...	...	...	...	...	0	2	0 each
B 65	"L" clamp for suspension from barrel	...	...	...	...	...	0	2	6 "

Lamp : 1000 or 500 watt Angle Burning General Service. G.E.S. Cap.
Beam Angle 24°. Cut Off Angle 24°.



Patt 56 Reflector with
1000 watt lamp.



DIMENSIONS PATTERN 56

	Ft.	In.
A	...	1 4½
B	...	2 4
C	...	1 3½
D	...	8½
E	...	4½

Nett weight of
Lantern, 26 lbs.



Telephone :
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC
AND ENGINEERING CO., LTD.**
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND STAGE FLOODS

PATTERN 59 VERTICAL FLOOD 1000 Watt



This lantern gives a *medium angle* vertical beam, suitable for general lighting of stage from No. 1 Batten, concert hall flooding, etc.

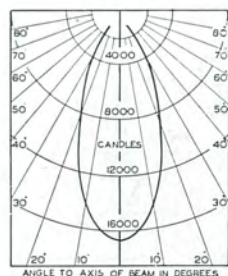
SPECIFICATION

Lantern constructed in lead-coated steel, efficiently ventilated. Fitted with runners to take two metal colour frames, hinged spring flap at each side. One-piece Type 49 silvered glass "SUNRAY" reflector. Tilting fork and 3 in. diameter locking wheels. 10 amp. plug with earth connection and clip. Finish : black enamel outside, matt black inside.

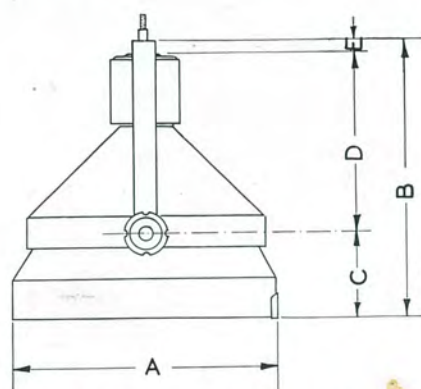
PRICE (exclusive of Lamp) ... £4 15 0

							£	s.	d.
B 67	Extra metal colour frames (16 $\frac{3}{4}$ in. x 16 in.)	...	...	...	...	...	1	7	6 per doz.
B 68	Ditto, with assorted gelatines	...	...	...	...	...	2	2	0 "
B 69	Ditto, with assorted "Chromoid" colours (see page 98)	...	...	...	...	...	3	18	6 "
B 64	Safety chain with snap hook	...	...	...	...	...	0	2	0 each
B 65	"L" clamp for 1 $\frac{1}{2}$ in. barrel	...	...	...	...	...	0	2	6 "

Lamp : 1000 watt Angle Burning General Service. G.E.S. Cap.
Beam Angle 72°. Cut Off Angle 105°



Pattern 49 Reflector
with 1000 watt lamp.



DIMENSIONS. PATTERN 59

	Ft.	In.		Ft.	In.
A ...	1	3	D ...	11	$\frac{1}{2}$
B ...	1	6	E ...	1	
C ...		5 $\frac{1}{2}$			

Net weight of Lantern, 24 lbs.



Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND STAGE FLOODS



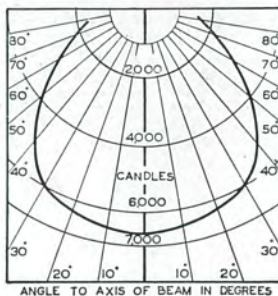
PATTERN 35 ARENA FLOOD 1000 Watt

This lantern gives a *wide angle* vertical beam, free from "hot spot," suitable for illuminating large areas, such as dance floors and circus arenas.

SPECIFICATION

Lantern constructed in lead-coated steel, efficiently ventilated. Underside fitted with hinged door carrying circular metal colour frame. One-piece Type 35 domed "SUNRAY" silvered glass reflector. Tilting fork and 3 in. diameter locking wheels. Wired with 2 ft. rockbestos tails. Finish: black enamel outside, white enamel inside.

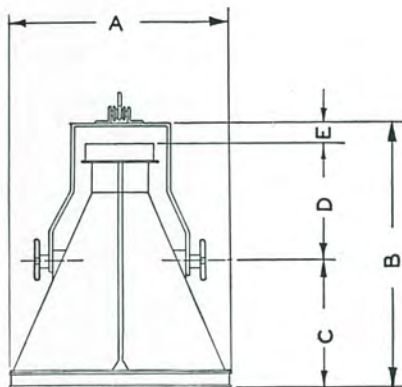
PRICE (exclusive of Lamp) ... £5 0 0



Arena Reflector with
1000 watt lamp

£ s. d.

- B 70 Extra 16 in. diameter metal colour frames ... 0 3 6 each
 B 71 Gelatine colours, cut to size ... 0 12 0 per doz.
 B 72 Chromoid colours, cut to size ... 1 14 0 ,,
 B 64 Safety chain, with snap hook ... 0 2 0 each
 Lamp: 1000 watt Angle Burning General Service. G.E.S. Cap
 Beam Angle 105°. Cut Off Angle 110°.



DIMENSIONS. PATTERN 35

	Ft.	In.		Ft.	In.
A ...	1	4½	D ...	8½	
B ...	1	7½	E ...	1½	
C ...		9½			

Nett weight of Lantern, 17 lbs.



Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND STAGE FLOODS



Triple 500 Watt

TRIPLE 500 Watt WING FLOOD

This unit comprises three Pattern 30 Floods (see page 20), built as one lantern. It is suitable for three-colour lighting in the wings of cinema stages, etc. The lantern is provided with a tilting fork and quadrant, and is mounted on a tripod stand.

PRICE (exclusive of Lamps) ... £11 10 0

TRIPLE 1000 Watt FLOOD

Consisting of three Pattern 49 1000 watt Floods, mounted on a light tubular steel stand, carried on heavy pattern rubber-tyred castors. Each lantern independently adjustable. Specification for lanterns is detailed on page 22. Rockbestos wiring terminating in three 10 amp. 2-pin plugs with earth connection and clip.

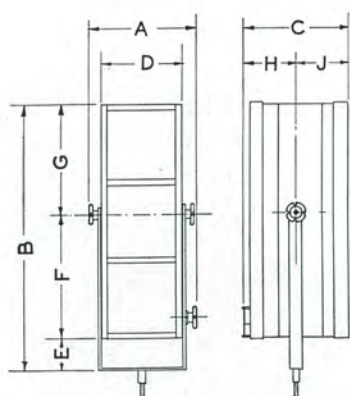


Triple 1000 Watt

PRICE (exclusive of Lamps) £18 0 0

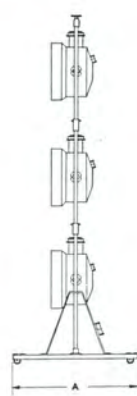
As above, but for two units £14 10 0

DIMENSIONS OF TRIPLE FLOODS



500 WATT TRIPLE WING FLOOD					
	Ft.	In.		Ft.	In.
A ...	1	3	D ...	1	0
B ...	3	4	E ...	4	9
C ...	1	5	F ...	1	7
			G ...	1	5
			H ...	4	9
			J ...	1	8

Nett weight of Lantern, 52 lbs. Stand, 17 lbs.



1000 WATT TRIPLE WING FLOOD					
	Ft.	In.		Ft.	In.
A ...	3	1 3/4	E ...	2	3
B ...	7	9 1/2	F ...	2	3
C ...	2	1 1/2	G ...	1	3
D ...	2	0 1/2			

Nett weight of Lantern and Stand, 155 lbs.

Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND SPOTLIGHTS

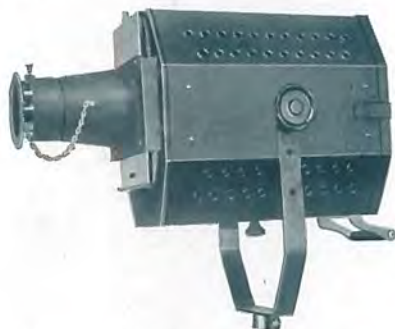
(GAS-FILLED LAMP TYPE)

There is no type of lantern that is put to such a variety of uses as the so-called "spotlight." Although generally referred to under this name, it is more correctly described as a focus lantern. This is used on battens, circle fronts, perches, etc., and can be focussed to give a medium angle flood, or to spot down to cover a chair or table. Its prime function is to create light and shade, and therefore life in the set on the stage. A wide range of these units is listed under the general heading of FOCUS LANTERNS.

All STRAND focus lanterns are supplied with spherical chromium-plated reflectors, of a diameter to match the lens concerned. These reflectors are durable and efficient. Once they are adjusted relative to lamp filament, so that the image thrown by the reflector and the image thrown by the lamp coincide, no further attention is necessary, whether the lamp is focussed for a large or small spot. A further refinement is obtained where the pre-focus holder is used. In this case the reflector and holder position is fixed at our works, and every lamp automatically registers correctly.



Focus Lantern



Focus Lantern and Spotting Attachment

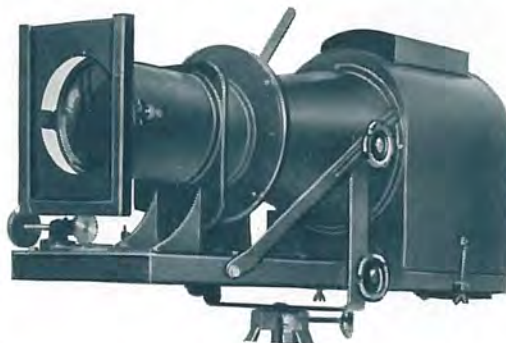
Where pin spotting is required, a supplementary lens can be fitted to the front runners, and gives a clear-cut circle of light of various diameters. The lens and the necessary diaphragms are made up in an auxiliary unit known as a SPOTTING ATTACHMENT. These are fitted with brass focussing lens tubes, safety chains, and with colour runners, to prevent deterioration of colour mediums through heat.

Strand Electric engineers, recognising that the decrease of light resulting from the use of spotting attachments left much to be desired, have designed two types of lanterns which can truly be described as perfect SPOTLIGHTS.

By means of special optical lens systems in the one case, and of reflectors in the other, the STRAND "Mirror Spotlight" and "STELMAR" have been designed to fulfil this requirement. Either of these, fitted with a 1000 watt projector lamp, gives an intense beam of light that can be controlled by diaphragms and masks to give any desired shape and size of spot. Furthermore, dimming may be effected from the stage board, in direct contrast to the cumbersome control of an arc spotlight.

To sum up, on the following pages can be found spotlights for every type of job, and in cases of doubt the considered opinion of our Research Department is at the customer's disposal.

STRAND focus lanterns and spotlights, with two exceptions, namely, Patterns 52A and 63, may be used either with a telescopic stand or suspended. The forks are fitted with $4\frac{1}{2}$ in. x $\frac{1}{2}$ in. threaded stem, and two hexagonal nuts and split pin.



"Stelmar" Spotlight

Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND FOCUS LANTERNS

PATTERN 27 FLOAT SPOT 100 or 250 Watt



This is a small compact spotlight which may, owing to its size, be concealed in footlights, stage furniture, prop fires, etc.

SPECIFICATION

Lantern constructed in sheet steel, efficiently ventilated. Access to lamp by hinged door at rear. 3 in. diameter, 6 in. focus plano-convex lens. Type 27 tray, giving variation in size of spot, axial adjustment for filament. Runners to take millboard colour frame on front. Rockbestos tails. Finish: black crystalline enamel outside, matt black inside.

PRICE (exclusive of Lamp) ... £2 0 0

C 73 Linen bound millboard colour frames ($4\frac{3}{8}$ in. x $4\frac{3}{8}$ in.) ... 4s. 0d. per doz.

C 74 Ditto, with assorted gelatines ... 6s. 0d. „

Lamp: 100 or 250 watt Class B.1 Round Bulb Projector. E.S. Cap. (see page 103).

Beam Angle: Maximum 49° . Minimum 22° .

Effective throw, 15 ft.

PATTERN 45 MINIATURE SPOT 250 Watt

This is a small spotlight which, owing to an increase in size compared to the Pattern 27, gives a more efficient light, and greater range of focussing. Suitable for small stages, exhibition displays, and stands.

SPECIFICATION

Lantern constructed in sheet steel, efficiently ventilated. Access to lamp by hinged door at rear. $4\frac{1}{2}$ in. diameter, $6\frac{1}{2}$ in. focus plano-convex lens. Type 45 tray, giving axial adjustment for filament, complete with spherical chromium-plated reflector. Focussing by knob under lantern. Runner to take millboard colour frame on front. Rockbestos tails. Finish: black crystalline enamel outside, matt black inside.

PRICE (exclusive of Lamp) ... £2 15 0

C 76 Linen bound millboard colour frames ($5\frac{5}{8}$ in. x $5\frac{1}{4}$ in.) ... 5s. 0d. per doz.

C 77 Ditto, complete with assorted gelatines ... 7s. 0d. „

C 78 Ditto, complete with assorted "Chromoid" colours ... 9s. 3d. „

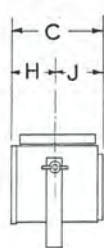
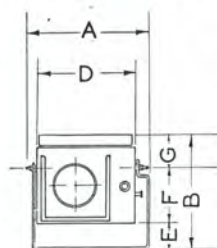
C 64 Safety chain with snap hook ... 2s. 0d. each

C 79 Swivel arm bracket ... 7s. 6d. „

Lamp: 250 watt Class B.1 Round Bulb Projector. E.S. Cap. (see page 103).

Beam Angle: Maximum 39° . Minimum 11° .

Effective throw, 15 ft.



PATTERN 27

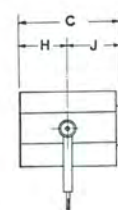
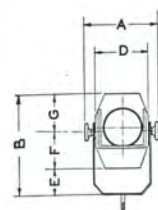
	Ft.	Ins.
A ...	9	$\frac{1}{4}$
B ...	8	$\frac{1}{2}$
C ...	6	$\frac{1}{2}$
D ...	7	
E ...	2	$\frac{1}{2}$
F ...	4	
G ...	2	
H ...	3	
J ...	3	$\frac{1}{2}$

Nett weight of
Lantern, 5 lbs.

PATTERN 45

	Ft.	Ins.
A ...	8	$\frac{1}{2}$
B ...	1	0
C ...	11	$\frac{1}{2}$
D ...	6	
E ...	3	$\frac{1}{2}$
F ...	4	$\frac{1}{2}$
G ...	4	$\frac{1}{4}$
H ...	5	$\frac{3}{4}$
J ...	6	$\frac{1}{2}$

Nett weight of
Lantern, $9\frac{1}{2}$ lbs.



Telephone :
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC
AND ENGINEERING CO., LTD.**

FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND FOCUS LANTERNS

PATTERN 44 BABY SPOT, 500 Watt



This spotlight is suitable for a multitude of situations on the stage proper, while for small amateur stages they may be used as F.O.H. focus lamps.

SPECIFICATION

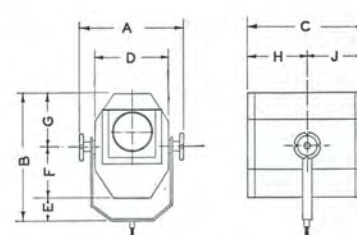
Lantern constructed in sheet steel, efficiently ventilated. Access to lamp by hinged door at rear. $4\frac{1}{2}$ in. diameter, $6\frac{1}{2}$ in. focus plano-convex lens. Type 43 tray, giving vertical and axial adjustment for lamp filament, complete with spherical chromium-plated reflector. Focusing by knob under lantern. Runner to take millboard colour frame on front, hinged flap and clip on top. Rockbestos tails, tilting fork and 3 in. diameter locking wheels. Finish : black crystalline enamel outside, matt black inside.

PRICE (exclusive of Lamp) ... £3 10 0

								£	s.	d.	
C 80	Linen bound millboard colour frames (6 in. x 6 in.)	...	...	...	...	...	...	6	0	0	per doz.
C 81	Ditto, with assorted gelatines	...	...	...	...	...	...	8	0	0	„
C 82	Ditto, with assorted "Chromoid" colours (see page 98)	...	...	...	...	...	...	10	0	0	„
C 83	Spotting attachment with four masks ($3\frac{1}{2}$ lbs.)	...	...	...	...	...	...	2	0	0	each
C 64	Safety chain with snap hook	...	...	...	...	...	...	2	0	0	„
C 84	Adjustable barrel clamp (as illustrated)	...	...	...	...	...	...	5	6	0	„
C 65	"L" clamp for $1\frac{1}{2}$ in. barrel...	...	...	...	...	...	...	2	6	0	„
C 79	Swivel arm bracket	...	...	...	...	...	...	7	6	0	„

Lamp : 500 watt Class A I Tubular or Class B Round Bulb Projector. G.E.S. Cap (see page 103).

Beam Angle : Maximum 39° , Minimum $11\frac{1}{2}^\circ$.
Effective throw 25 ft.



DIMENSIONS. PATTERN 44

	Ft.	In.		Ft.	In.
A	...	$11\frac{1}{2}$	F	...	$5\frac{1}{2}$
B	...	$2\frac{1}{2}$	G	...	$6\frac{1}{2}$
C	...	1	H	...	$6\frac{1}{2}$
D	...	8	J	...	$6\frac{1}{2}$
E	...	$2\frac{1}{2}$			

Nett weight of Lantern, 18 lbs.

Telephone :
Temple Bar 7464 (6 lines).

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FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND FOCUS LANTERNS

PATTERN 43 B STAGE SPOT, 1000 Watt



This Spotlight is suitable for all general stage purposes, and may be used as a F.O.H. focus lamp. Also suitable for CABARET work, etc.

SPECIFICATION

Lantern constructed in sheet steel, efficiently ventilated. Access to lamp by hinged door at rear. 6 in. diameter, 10 in. focus plano-convex lens. Type 43 tray, giving vertical and axial adjustment for lamp filament, complete with spherical chromium-plated reflector. Focusing by knob under lantern. Runners to take millboard colour frames on front. Tilting fork and 3 in. diameter locking wheels. Removable handle at rear. Finish, black crystalline enamel outside, matt black inside.

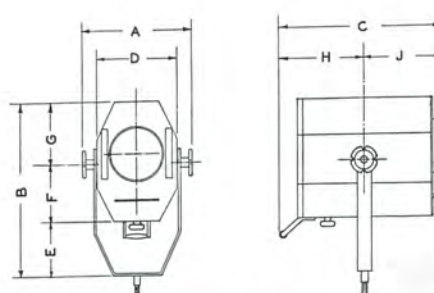
PRICE (exclusive of Lamp) ... £4 12 6

	£	s.	d.
C 60 Light Pattern Telescopic Stand (Min. height 4 ft. 3 in., Max. 7 ft. 0 in.)	1	2	6 each
C 225 Linen bound millboard colour frames (8 $\frac{3}{4}$ in. x 7 $\frac{1}{2}$ in.)	7	6	per doz.
C 226 Ditto, with assorted gelatines	10	0	"
C 227 Ditto, with assorted "Chromoid" colours (see page 98)	17	9	"
C 88 Spotting attachment with four masks, giving four sizes of spots (weight 5 $\frac{1}{2}$ lbs.)	2	0	0 each
C 64 Safety chain with snap hook	2	0	"
C 84 Adjustable barrel clamp	5	6	"
C 65 "L" clamp for 1 $\frac{1}{2}$ in. barrel	2	6	"
Extra Price for fitting switch to Lantern for cabaret work	5	0	Nett

Lamp : 1000 watt Class A I Tubular or Class B Round Bulb Projector. G.E.S. Cap (see page 103).

Beam Angle : Maximum 42°, Minimum 13°.

Effective throw 60 ft.



DIMENSIONS. PATTERN 43B

	Ft.	In.		Ft.	In.
A	...	1	0 $\frac{1}{2}$	F	...
B	...	1	8	G	...
C	...	1	5 $\frac{1}{2}$	H	...
D	...	9		J	...
E	...	6 $\frac{1}{2}$			

Nett weight of Lantern, 25 lbs.

Telephone :
Temple Bar 7464 (6 lines).

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AND ENGINEERING CO., LTD.**

FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND FOCUS LANTERNS

PATTERN 43 A BATTEN SPOT 1000 Watt



This compact lantern is primarily designed for use on a spot batten. Strength of construction, access to lamp, and special focussing have been arranged to this end. If a pre-focus holder is fitted no lamp or reflector adjustment is necessary. It may be used as a front of circle focus lantern if desired.

SPECIFICATION

Lantern constructed with aluminium front, back and sides. Sheet steel top and bottom. Access to lamp by hinged door at top. 6 in. diameter, 10 in. focus plano-convex lens. Type 43A tray, giving vertical and axial adjustment for lamp filament. Complete with spherical chromium-plated reflector. Worm drive focussing front and rear. Cast runners fitted with retaining springs to take two millboard colour frames. Rockbestos tails, tilting fork with 3 in. diameter locking wheels. Finish : black crystalline enamel outside, matt black inside.

PRICE (exclusive of Lamp) ... £8 5 0

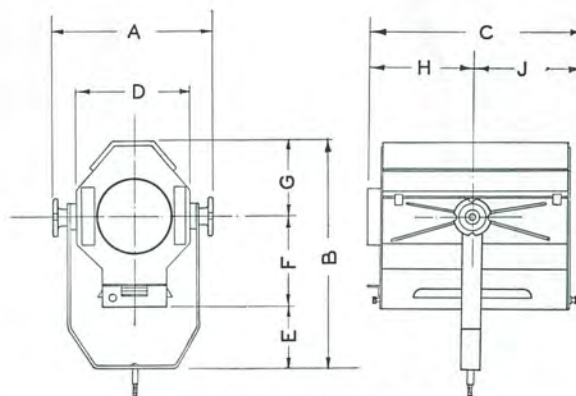
		£	s.	d.
C 225	Linen-bound millboard colour frames (8 $\frac{3}{4}$ in. x 7 $\frac{1}{2}$ in.) ...	0	7	6 per doz.
C 226	Ditto, with assorted gelatines ...	0	10	0 „
C 227	Ditto, with assorted "Chromoid" colours (see page 98) ...	0	17	9 „
C 88	Spotting attachment with assorted masks, giving four sizes of spots (weight 5 $\frac{1}{2}$ lbs.) ...	2	0	0 each
C 64	Safety chain with snap hook ...	0	2	0 „
C 84	Adjustable barrel clamp ...	0	5	6 „
C 65	"L" clamp (as illustrated) ...	0	2	6 „

Lamp : 1000 watt Class A.I Tubular or Class B.I round bulb projector. G.E.S. Cap.

Beam Angle : Maximum 54°. Minimum 18°.
Effective throw, 60 ft.

The lantern may, if desired, be supplied with a tray carrying a Mogul pre-focus holder for 10/- extra.

Prices of complete Spot Battens to customer's specification on application.



DIMENSIONS. PATTERN 43A									
		Ft.	In.		Ft.	In.		Ft.	In.
A	...	1	0 $\frac{1}{2}$	D	...	9	G	...	6 $\frac{1}{2}$
B	...	1	5 $\frac{1}{2}$	E	...	4 $\frac{1}{2}$	H	...	8 $\frac{1}{2}$
C	...	1	4 $\frac{1}{2}$	F	...	6 $\frac{1}{2}$	J	...	8 $\frac{1}{2}$

Nett weight of Lantern, 30 lbs.

Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2.

Telegraphic Address :
Spotlite, Rand, London.

STRAND FOCUS LANTERNS

REMOTE COLOUR-CHANGE SPOT



Circle Front Colour-change Spots at Adelphi Theatre, London

The increase in F.O.H. stage lighting from circle fronts, either as a substitute for or in addition to footlights, has rendered it desirable to have some means of changing the colours of the individual lanterns by remote control. For this purpose, the electric solenoid action here illustrated will be found silent, trouble-free, and easy to install.

The system gives four colours and white; the action employs direct current solenoids to ensure silence. The coils can be wound to any voltage to suit whatever D.C. supply is available.

In practice, it is most convenient to feed the coils off the stage or projection room arc generator. However, a separate small rectifier can be supplied if preferred.

Control is by means of miniature switches mounted in colour rows with colour master switches. The mechanism can be fitted to Patterns 43A, 52A, 52B, 63 or 73. Their reliability and utility is proved by the fact that this remote colour control is fitted to banks of F.O.H. lanterns, situated in theatres whose names are household words throughout the English-speaking world:—

Drury Lane Theatre

Palace Theatre, London

His Majesty's, London

Covent Garden Opera House

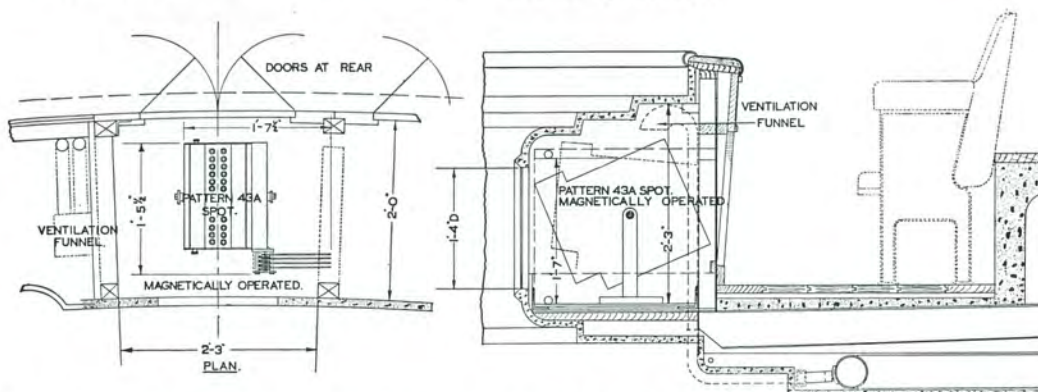
London Palladium

Gaiety, London

Adelphi Theatre, London

Prince Edward Theatre, London

And numerous theatres and cinemas in London and the provinces.



PRICE ... Pattern 43A Lantern, described on page 32, complete with remote colour change mechanism, colour frames and gelatines, but excluding lamp—

(4 colours and white) ...	£27 0 0
(3 colours and white) ...	£23 10 0

C 89 Gelatine colours, cut to size (exclusive of frame) ...	s. d.
C 90 "Chromoid" colours, cut to size (exclusive of frame) ...	6 0 per doz.
	18 0 ,,

Telephone :
Temple Bar 7464 (6 lines).

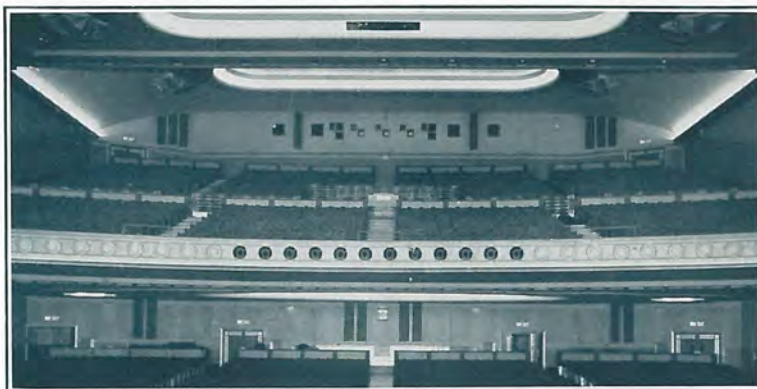
**STRAND ELECTRIC
AND ENGINEERING CO., LTD.**

FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND FOCUS LANTERNS

PATTERN 52 A FOCUS FLOOD 2000 Watt



Regal Cinema, Edmonton

This lantern is suitable for use in housings on the balcony fronts for general illumination of the fore-stage or tabs. The use of an 8 in. diameter lens gives maximum efficiency, while the dimensions are kept down to a minimum to render concealment as easy as possible.

SPECIFICATION

Lantern constructed with cast aluminium front and back, sheet steel sides. Efficient ventilation. Access to lamp by hinged door at rear. 8 in. diameter, 13 in. focus plano-convex lens. Type 52 tray giving vertical and axial adjustment for lamp filament, complete with 6 in. diameter spherical chromium-plated reflector. Focussing by knob under lantern. Cast runners fitted with retaining springs to take two metal colour frames. Rockbestos tails. Tilting fork and quadrant with 3 in. diameter locking wheels. Heavy cast base mounting. Finish: black crystalline enamel outside, matt black inside. PRICE (exclusive of Lamp) ... £10 10 0

							£	s.	d.	
C 91	Metal colour frames, 10 in. x 10 in.	...	...	...	...	...	0	9	0	per doz.
C 92	Ditto, with assorted gelatine colours	...	...	...	...	...	0	15	0	"
C 93	Ditto, with assorted "Chromoid" colours	...	...	...	...	...	1	7	0	"

The tray may be fitted with Mogul Pre-focus Holder at 10/- extra (see page 28).

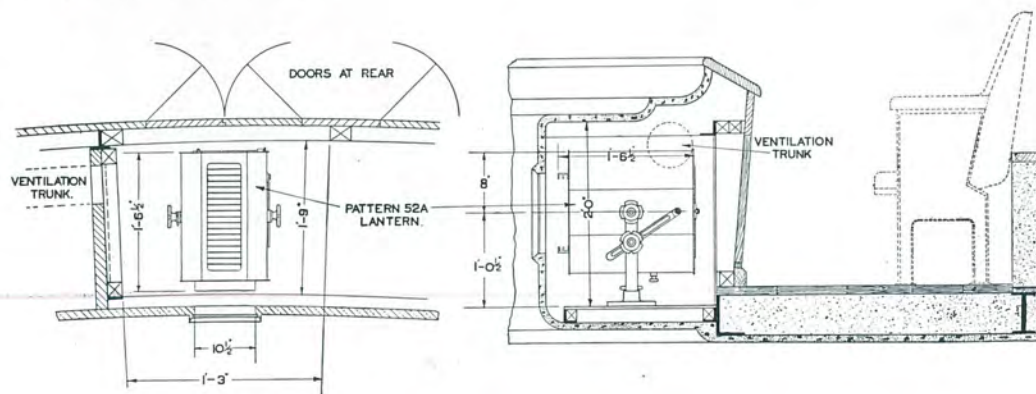
Nett weight, 42 lbs.

Lamp: 2000 watt Cinema Studio or 1500 watt Class A.I Tubular Projector. G.E.S. Cap.

Beam Angle: Maximum 54°. Minimum 25°.

Effective throw, 70 ft.

IMPORTANT NOTE.—When a number of these lanterns are used in a housing, particular attention should be paid to the ventilation.



Telephone:
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC
AND ENGINEERING CO., LTD.**
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address:
Spotlite, Rand, London.

STRAND FOCUS LANTERNS

PATTERN 52 B 2000 Watt SPOTLIGHT

This lantern is similar to Pattern 52A, but the 4 in. increase in size gives wider focussing range, thus making it more suitable for general stage work.

SPECIFICATION

As set out for Pattern 52A, on page 34, fitted with removable "following" handle at rear.



PRICE (exclusive of Lamp) ... £10 10 0

		£	s.	d.	
C 91	Metal colour frames (10 in. x 10 in.)	...	0	9	0 per doz.
C 92	Ditto, with assorted gelatines	...	0	15	0 "
C 93	Ditto, with assorted "Chromoid" colours	...	1	7	0 "
C 66	Heavy pattern telescopic stand (min. height 4 ft. 3 in., max. 7 ft. 0 in.)	...	1	7	6 each

Nett weight of Lantern, 46 lbs.

Lamp : 2000 watt Cinema Studio or 1500 watt Class A.I Tubular Projector. G.E.S. Cap.

Beam Angle : Maximum 54°. Minimum 14°. Effective throw, 100 ft.

PATTERN 50 A PAGEANT LANTERN 1000 Watt

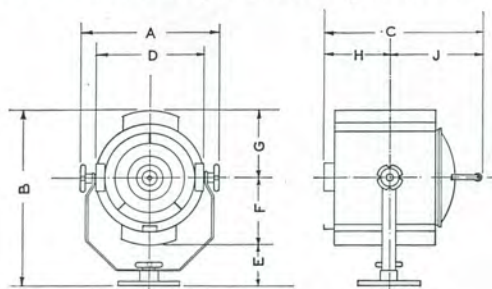
This lantern provides a very intense soft edge beam of light, the size of which can be varied slightly. Suitable for stage sunlight, photography, and other instances where a very intense beam is required.

SPECIFICATION

Sheet metal housing, efficiently ventilated. Door at rear carrying 10 in. diameter silvered glass parabolic reflector. Type 50 tray, giving axial and vertical adjustment for lamp filament. Worm drive focussing. Front of lantern fitted with spill rings to cut off direct rays of light. Colour runners and glass diffusing screen. Rockbestos tails. Tilting fork with 3 in. diameter locking wheels, mounted on heavy cast base. Removable handle at rear. Finish : black inside, black crystalline enamel outside.

PRICE (exclusive of Lamp) ... £7 7 0

		£	s.	d.	
C 61	Linen-bound millboard colour frames (11 $\frac{3}{4}$ in. x 11 $\frac{3}{4}$ in.)	...	0	9	0 per doz.
C 62	Ditto, with assorted gelatines	...	0	15	0 "
C 63	Ditto, with assorted "Chromoid" colours	...	2	5	0 "
C 94	Coloured glass screens (Pink, Blue or Amber)	...	0	2	6 each



DIMENSIONS. PATTERN 50A

	Ft.	In.		Ft.	In.		Ft.	In.
A ...	1	3 $\frac{1}{2}$	D ...	1	0	G ...	7	$\frac{1}{2}$
B ...	1	8	E ...	5		H ...	7	
C ...	1	6	F ...	7	$\frac{1}{2}$	J ...	11	

Nett weight of Lantern, 26 lbs.

Lamp : 1000 watt Class A.I Tubular or Class B.I Projector G.E.S. Cap.

Beam Angle : Maximum 17°. Minimum 11°.

Telephone :
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC
AND ENGINEERING CO., LTD.**

FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND SPOTLIGHTS

PATTERN 73 MIRROR SPOTLIGHT, 1000 Watt



This lantern employs optical principles never before applied to stage spotlights. An 8 in. diameter silvered glass mirror projects an intense beam of light on a variable gate. This is focussed by a 6 in. diameter step lens. By this means rectangular spots of various sizes can be projected with an intensity of over double that obtained from a standard spotlight of the same size and wattage. Masking, to spot irregular objects on the stage hitherto impossible, can now be easily accomplished. This lantern is particularly suitable for circle front or batten spotting in the legitimate theatre.

SPECIFICATION

Lantern constructed in sheet steel, efficiently ventilated, cast aluminium front and back. Type 43 tray, 8 in. diameter silvered glass reflector, 6 in. diameter, 9 in.

focus step heat-resisting lens. Independently operated horizontal and vertical barn door shutters with heat insulated operating handles, runner for additional internal mask if required. Front runner to take square millboard colour frame or circular metal frame. Rockbestos tails, tilting fork and quadrant with 3 in. diameter locking wheels. Finish, black crystalline enamel outside, matt black inside.

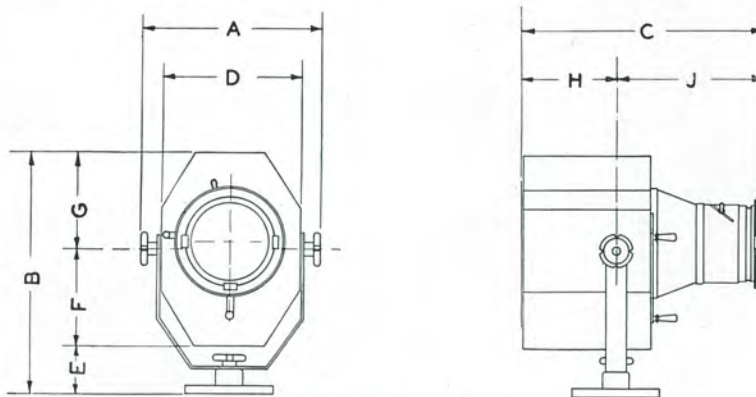
PRICE (exclusive of Lamp) ... **£12 12 0**

						£	s.	d.
C 240	Circular metal colour frames (6 $\frac{3}{4}$ in. diameter)...	...	...	...	...	1	1	0 per doz.
C 241	Ditto, with assorted gelatines	...	...	...	...	1	7	0 "
C 242	Ditto, with assorted "Chromoid" colours	...	...	...	...	1	19	0 "

Beam Angle :

Vertical...	...	Maximum 19°
		Minimum 3°
Horizontal	...	Maximum 19°
		Minimum 3°

Lamp : 1000 watt Class A1 Tubular
or Class B1 Round Bulb Projector.



DIMENSIONS PATTERN 73

		Ft.	In.			Ft.	In.
A	...	1	1 $\frac{1}{2}$	E	...	5	
B	...	1	6 $\frac{1}{2}$	F	...	6 $\frac{1}{2}$	
C	...	1	7 $\frac{1}{2}$	G	...	6 $\frac{1}{2}$	
D	...	1	10	H	...	6 $\frac{1}{2}$	
J	...	1	0 $\frac{1}{2}$				

Nett weight 30 lbs.

Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND SPOTLIGHTS

PATTERN 63 STELMAR SPOTLIGHT 1000 Watt

This lantern gives a powerful beam of light of variable size. Suitable for spotting or following artists from the front of the house. Three of these lanterns, fitted with 30 volt 30 amp. lamps, are used for front of house spotting in place of arcs at the Royal Opera House, Covent Garden.



SPECIFICATION

Lantern constructed in sheet steel with cast base and supporting castings giving rigidity. Removable lamp-house gives access to lamp and Stelmar unit. Lamp holder provided with special arrangements to ensure accurate centering of filament in optical system. Efficient ventilation. Iris diaphragm. Horizontal and vertical barndoor shutters giving various shaped beams of light. Rack and pinion focussing, 6 in. diameter, 12 in. focus plano-convex lens. A colour runner to take millboard colour frames on front. Tilting fork and quadrant with 3 in. diameter locking wheels. Finish: crystalline enamel, nickel-plated accessories.

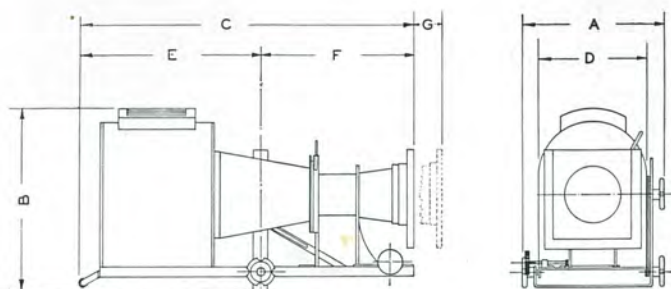
PRICE (exclusive of Lamp) ... **£48 0 0**

- C 99 Heavy tripod stand (maximum height, 3 ft. 6 in. ; minimum, 3 ft.) **£ s. d. 2 15 0** each
- C 119 Linen-bound millboard colour frames (8 $\frac{3}{4}$ in. x 7 in.) ... **0 7 6** per doz.
- C 120 Ditto, with assorted colours ... **0 10 0** „
- C 121 Ditto, with assorted "Chromoid" colours ... **0 19 6** „

Lamp : 1000 watt Class A.1 Tubular or 30 volt 30 amp. Projector. G.E.S. Cap. Beam Angle: Maximum 16 $\frac{1}{2}$ °. Minimum 3°. Effective throw 150 ft.

- C 100 Double-wound enclosed air-cooled transformer. Input 230 volts, 50 cycles. Output 30 volts, 30 amps.

PRICE ... **£5 9 6** Nett



DIMENSIONS. PATTERN 63

	Ft.	Ins.		Ft.	Ins.
A...	1	2 $\frac{1}{2}$	E...	1	7
B...	1	5	F...	1	4 $\frac{1}{2}$
C...	2	11 $\frac{1}{2}$	G...		3
D...		11			

Nett weight of Lantern, 85 lbs. Stand, 15 lbs.

Telephone :
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC
AND ENGINEERING CO., LTD.**

FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND SPOTLIGHTS



PATTERN 74 BABY MIRROR SPOT 250 Watt

This is a small and compact lantern incorporating the same optical principles employed in the Pattern 73. The intensity and control of light given by this lantern renders it ideal for poster and display work.

SPECIFICATION

Lantern constructed in sheet steel, efficiently ventilated. $4\frac{1}{2}$ in. diameter silvered glass reflector, $3\frac{1}{2}$ in. diameter Plano Convex Lens. Horizontal and vertical barn door shutters and runner to take internal mask if required. Front runner to take square millboard colour frame. Rockbestos tails, tilting fork with locking wheels. Finish, black crystalline enamel outside, matt black inside.

PRICE (exclusive of Lamp) ... £6 6 0

								s.	d.
C 76	Linen bound millboard colour frames ($5\frac{5}{8}$ in. x $5\frac{1}{2}$ in.)	...	...	...	...	...	...	5	0 per doz.
C 77	Ditto, complete with assorted gelatines	...	...	...	...	...	...	7	0 "
C 78	Ditto, complete with assorted "Chromoid" colours	...	...	...	...	...	...	10	0 "
C 64	Safety chain with snap hook	...	...	...	...	...	...	2	0 each.
C 79	Swivel arm bracket	...	...	...	...	...	...	7	6 "

Lamp, 250-watt Class B I Round Bulb Projector E.S. Cap.

Beam Angle, Maximum 19° , Minimum 0° .

Effective throw 35 ft.

PATTERN 80 BABY PAGEANT LANTERN 12 Volt 100 Watt

This is a small lantern incorporating the optical principles of the Pattern 50 Pageant Lantern. The size has been reduced to an absolute minimum. The use of a low voltage lamp gives an intense beam of light for an extremely low current consumption.

SPECIFICATION

Lantern constructed in sheet steel, efficiently ventilated. Door at rear carrying $4\frac{1}{2}$ in. diameter silvered glass reflector. Worm drive focussing. Colour runners and glass diffusing screen. Rockbestos tails. Tilting fork with locking wheels and heavy base. Finish, black crystalline enamel outside, matt black inside.

PRICE (exclusive of Lamp) ... £3 10 0



								s.	d.
C 243	Metal colour frames ($5\frac{1}{2}$ in. x $5\frac{1}{2}$ in.)	...	...	...	...	...	...	18	6 per doz
C 244	Ditto, with assorted gelatine colours	...	...	...	...	...	...	1	0 6 "
C 245	Ditto, with assorted "Chromoid" colours	...	...	...	...	...	...	1	3 6 "
C 246	Suitable Transformer to reduce A.C. voltage	...	...	...	...	...	...	2	0 0 each

Lamp, 100-watt 12-volt Class F Projector, E.S. Cap.

Beam Angle, Maximum 17° , Minimum 10° .

Effective throw 150 ft.

DIMENSIONS																			
PATTERN 74																			
	Ft.	Ins.																	
A	...	8																	
B	...	1																	
C	...	4																	
D	...	0																	
E	...	6																	
F	...	3																	
G	...	4																	
H	...	4																	
J	...	7																	
K	...	4																	
L	...	1																	

Nett weight 11 lbs.

Nett weight $6\frac{1}{2}$ lbs.

Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.

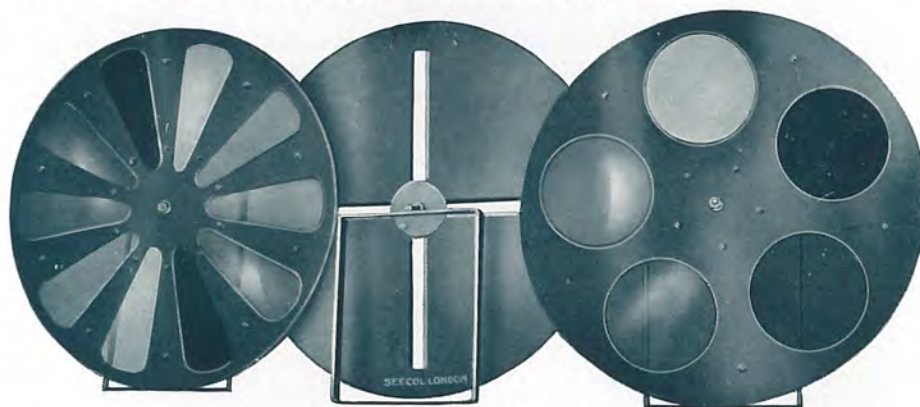
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND SPOTLIGHT ACCESSORIES

RAINBOW, FLICKER AND COLOUR WHEELS

Constructed of sheet aluminium with wired rims, pivoted on cast aluminium plate to fit front runners of Patterns 43B, 63, 23A, 22 and 42. Gelatine colours replaceable by removing one screw to each colour only. Diameter, 20in. Weight 3 lbs.



Rainbow Colour and Flicker Wheels

											£	s.	d.	
C 101	No. 1—Rainbow	...	...	...	...	...	...	...	...	...	1	10	0	each
C 102	No. 2—Flicker	...	...	...	...	...	...	...	...	...	0	18	0	"
C 103	No. 3—Colour	...	...	...	...	...	...	...	...	...	1	7	6	"

Smaller colour wheels to fit Pattern 44, price as above

AUTOMATIC COLOUR WHEEL

Five colours on sectional mica disc, in aluminium case 18 $\frac{3}{4}$ in. diameter. Clock drive, with electric battery start and stop. To fit same lanterns as standard colour wheels. Weight 8 lbs.

C 105 PRICE (exclusive of Batteries)
£6 15 0 each Nett

As above, but with universal electric motor drive (giving one rev. in three minutes).

C 106 PRICE ... £10 15 0 each Nett

IRIS DIAPHRAGM

Aluminium casting with brass leaves. Lever movement, 5 in. aperture to black out. To fit Patterns 43B, 63, 23A and 22. Special sizes made to order. Weight 3 lbs.

C 104 PRICE ... £2 12 0 each



Iris Diaphragm

MIRROR BALL

Complete ball with blue and white mirror glass, mosaic surface.

						£	s.	d.	
PRICE	...	C 107	12" diameter	...	...	4	0	0	each
									Weight 9 lbs.

						£	s.	d.	
		C 108	16" diameter	...	...	6	0	0	"
									Weight 13 lbs.

Large sizes up to 4 ft. diameter can be supplied. Prices on application.

						£	s.	d.	
PRICE	...	C 109	Clockwork rotator	...	...	1	5	0	each
									Weight 2 lbs.

						£	s.	d.	
		C 110	Electric motor rotators, from	...	...	6	0	0	"



Mirror Ball and Rotator

Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

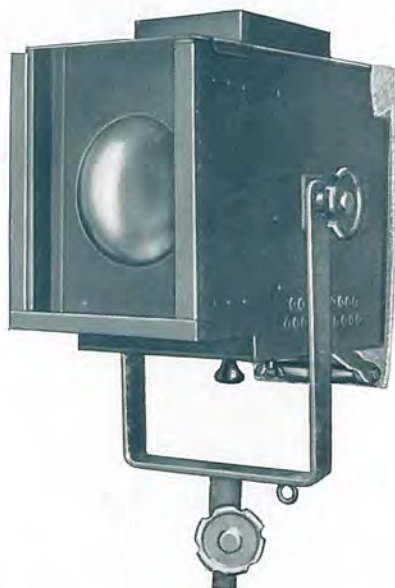
STRAND ARC SPOTLIGHTS

While the perfection of new types of concentrated filament gas-filled projector lamps has enabled the arc to be almost completely banished from the stage it still remains the best means of obtaining a bright source of light for spotlights, such as are used for following artists from the front of house.

On the following pages are listed a complete range of arc spotlights from the simple 15 ampere stage arc to the last word in front of house spotting—the Stelmar Arc.

It will be noticed that some of the smaller types may be used with white flame carbons on A.C. supply. This practice is not recommended owing to noise, and A.C. should only be used as a last resort

All STRAND arc spotlights are now fitted with heat-resisting lenses



PATTERN 23 A

STAGE ARC SPOT 15—20 Amp.

This lantern is a general purpose spotlight for light duty on short throws not exceeding 50 ft.

SPECIFICATION

Double cased lantern, asbestos lined, constructed in heavy gauge planished steel, efficiently ventilated. Fitted with 6" diameter 9" focus heat-resisting lens. Tilting fork with 3" diameter locking wheels. Colour runners on the front to take three millboard colour frames. Asbestos curtain at rear.

ARC.—2-movement hand feed, carried on sliding tray, focussing by knob underneath. Rockbestos wiring to pair of connection terminals.

PRICE (complete with Arc Lamp) ... £7 10 0

						£	s.	d.
D 85	Linen-bound millboard colour frames (10 $\frac{3}{4}$ " x 7 $\frac{1}{2}$ ")	...	...	...	...	0	7	6 per doz.
D 86	Ditto, with assorted gelatines	...	...	...	...	0	10	0 "
D 87	Ditto, with assorted "Chromoid" colours	...	...	...	...	1	2	6 "
D 60	Light pattern telescopic stand (minimum height 4' 3", maximum 7' 0")	...	...	...	...	1	2	6 each
D 113	Flange plate stand, 6" high	...	...	...	...	0	3	6 "
D 104	Iris diaphragm	...	...	...	...	2	12	0 "

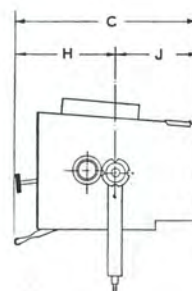
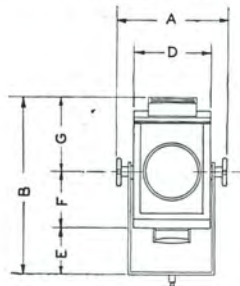
For suitable Resistances, see page 45

D.C. CARBONS. (Prices see page 106).

15 m/m diam. Positive (cored).

8 m/m diam. Negative (solid).

Arc Volts, 48.



A.C. CARBONS. (Prices see page 106).
10 m/m diam. White Flame. Arc Volts, 25.

	Ft.	Ins.		Ft.	Ins.		Ft.	Ins.
A	...	11 $\frac{1}{2}$	D	...	8 $\frac{1}{2}$	G	...	7 $\frac{1}{2}$
B	...	6 $\frac{1}{2}$	E	...	5	H	...	9 $\frac{1}{2}$
C	...	6 $\frac{1}{2}$	F	...	6	J	...	9

Nett weight of Lantern, 26 lbs.

Telephone :
Temple Bar 7464 (6 lines).

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AND ENGINEERING CO., LTD.**

FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND ARC SPOTLIGHTS

PATTERN 22 FRONT OF HOUSE SPOTTING ARC 30-40 Amp.

This lantern is a good general purpose arc, suitable for spotting and following artists on throws up to 70 ft. long.

SPECIFICATION

Double cased lantern, asbestos lined, constructed in heavy gauge planished steel, efficiently ventilated. Fitted with 6" diameter 9" focus heat-resisting lens. Tilting fork and quadrant with 3" diameter locking wheels. Colour runners on front to take three millboard colour frames. Asbestos rear screen. Blackout shutter, operated by knob at rear.



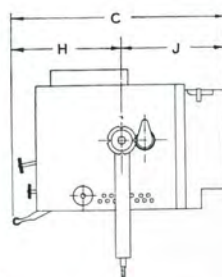
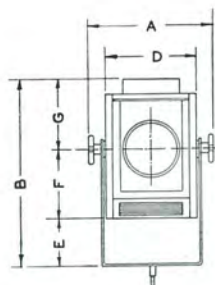
ARC LAMP.—3-movement hand feed, carried on sliding tray, rack and pinion focussing. Rockbestos wiring to pair of connection terminals.

PRICE ... £13 0 0



							£	s.	d.
D 119	Linen-bound millboard colour frames (10 $\frac{3}{4}$ " x 7 $\frac{1}{2}$ ")	...	...	...	...	...	0	7	6 per doz.
D 120	Ditto, with assorted gelatines	...	...	...	...	...	0	10	0 "
D 121	Ditto, with assorted "Chromoid" colours	...	...	...	...	...	1	2	6 "
D 66	Heavy pattern telescopic stand (minimum height 4' 3", minimum 7' 0")	...	...	...	...	...	1	7	6 each
D 113	Flange plate stand, 6" high	...	...	...	...	...	0	3	6 "
D 104	Iris diaphragm	...	...	...	...	...	2	12	0 "

Suitable Resistances (see page 45)



	Ft.	Ins.		Ft.	Ins.		Ft.	Ins.
A	...	1	2	D	...	9	1	2
B	...	1	8	E	...	6	...	...
C	...	1	10	F	...	6	1	2
				G	...	8	...	...
				H	...	11	...	...
				J	...	11	...	...

Nett weight of lantern, 32 lbs.

D.C. CARBONS (Prices see page 106).

25-30 amp. 18 m/m diameter Positive (cored).
10 m/m diameter Negative (solid).

40-50 amp. 20 m/m diameter Positive (cored).
12 m/m diameter Negative (solid).

Arc Volts, 50.

A.C. CARBONS. (Prices see page 106)

30-35 Amp. 13 m/m White Flame.

35-40 Amp. 14 m/m White Flame.

Arc Volts, 25-28.

PATTERN 42 COMBINED SPOTTING & OPTICAL EFFECTS LANTERN

Specification and external appearance as Pattern 22 above, but fitted with auxiliary lens and effects runner, enabling it to carry the effects attachments listed on page 58.

PRICE (complete with two 6" x 8" Heat-resisting Lenses) ... £15 15 0

Accessories, see above.

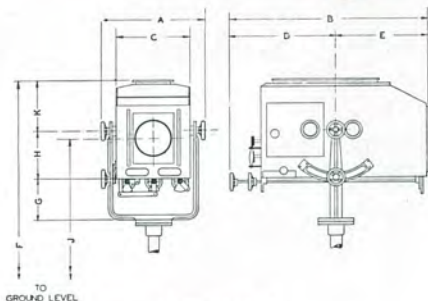
Telephone :
Temple Bar 7464 (6 lines).

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AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND ARC SPOTLIGHTS

PATTERN 75 FRONT OF HOUSE SPOTTING ARC, 80 Amp.



PATTERN 75

	Ft.	Ins.		Ft.	In.
A ...	1	6	F ...	4	10 Min.
B ...	2	6	G ...		8
C ...	1	0	H ...		7
D ...	1	5	J ...	4	9 Max.
E ...	1	1	J ...	3	11 Min.
F ...	5	8 Max.	K ...		10

Nett weight of Lantern, 100 lbs.

Nett weight of Stand, 56 lbs.

This lantern has been designed for front of house spotting over the long throws that are common in the modern cinema.

SPECIFICATION

Lamphouse constructed of cold rolled and close annealed sheet steel on a cast aluminium base and back. The housing consists of an inner and outer frame, with air space between, giving efficient ventilation.

Vertical and horizontal barn door shutters and iris diaphragm operated by handwheels at the rear. Double runners for colour mediums and a cast front to take effects attachments are provided.

6 in. diameter 9 in. focus plano-convex *heat-resisting lens* in removable mount. Asbestos curtain at rear. Tilting fork and quadrant. Heavy pattern telescopic stand and cast base. Finish: crystalline black enamel outside, matt black inside, nickel-plated wheels and fittings.

ARC LAMP.—Six movement hand feed type, carrying up to 80 amperes, rack and pinion focussing, with indicator scale. Connector box is fitted in lamphouse.

PRICE (complete with Stand) ... £32 0 0

£ s. d.

D 122	Assorted gelatine mediums, cut to size	...	...	...	...	6 0 per doz.
D 123	Assorted "Chromoid" colours, cut to size	...	...	...	...	1 16 0 ,,
D 124	Effect attachment with 6 in. condenser	...	...	...	...	2 7 6 each
D 125	Metal colour frames	...	...	...	...	0 2 6 ,,
D 126	Colour wheel with gelatine mediums	...	...	...	...	1 10 0 ,,
D 127	Rainbow wheel with gelatine mediums	...	...	...	...	2 2 0 ,,
D 128	Flicker wheel	...	...	...	...	1 5 0 ,,

Suitable Resistances, see page 45.

Optical Effect Accessories, see page 58.

Effective throw 150 ft. Angle of tilt below horizontal 35°.

D.C. CARBONS (prices see page 106).

80 Amp.	22 m/m	Positive (Cored)	} Arc Volts 52
	11 m/m	Negative (Cored and Copper-coated)	

Telephone :
Temple Bar 7464 (6 lines).

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AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND ARC SPOTLIGHTS

PATTERN 70 MAGAZINE SPOTTING ARC, 80 amp.

This lantern is the ideal cinema front-of-house spotlight. The colour magazine gives complete control from the rear of lantern.

SPECIFICATION

Lamphouse constructed of cold rolled and close annealed sheet steel on a cast aluminium base and back. The housing consists of an inner and outer frame, with air space between, giving efficient ventilation.

The cast front portion carries a colour magazine with four colour frames sliding in metal runners. These are operated by tracker chains, attached to quadrant type levers at the back of the lamphouse. Each lever is fitted with quick release catch, which locks the lever when in the "off" position. Double runners for additional colours and further runner to take optical effects attachments are provided.

Vertical and horizontal barn door shutters and iris diaphragm, operated by handwheels at the rear.

6 in. diameter, 9 in. focus plano-convex *heat-resisting lens* in removable mount. Asbestos curtain at rear. Tilting fork and quadrant. Heavy pattern telescopic stand and cast base. Finish: crystalline black enamel outside, matt black inside, nickel-plated wheels and fittings.

ARC LAMP.—Six movement hand-feed type, carrying up to 80 amperes, rack and pinion focussing, with indicator scale.

Connector box is fitted in lamphouse.

PRICE (complete with Stand) ... £50 0 0

	£	s.	d.
D 122 Assorted gelatine mediums, cut to size	3	0	per doz.
D 123 Assorted "Chromoid" colours, cut to size	14	6	" "
D 124 Effect attachment	2	7	6 each
D 125 Metal colour frames	0	2	6 "
D 126 Colour wheel with gelatine mediums	1	10	0 "
D 127 Rainbow wheel with gelatine mediums	2	2	0 "
D 128 Flicker wheel	1	5	0 "

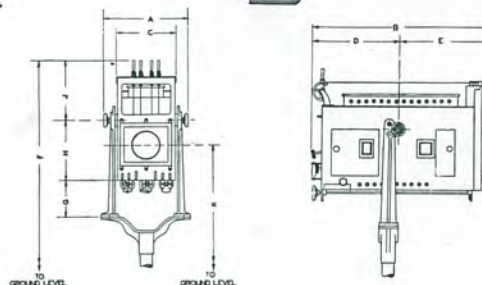
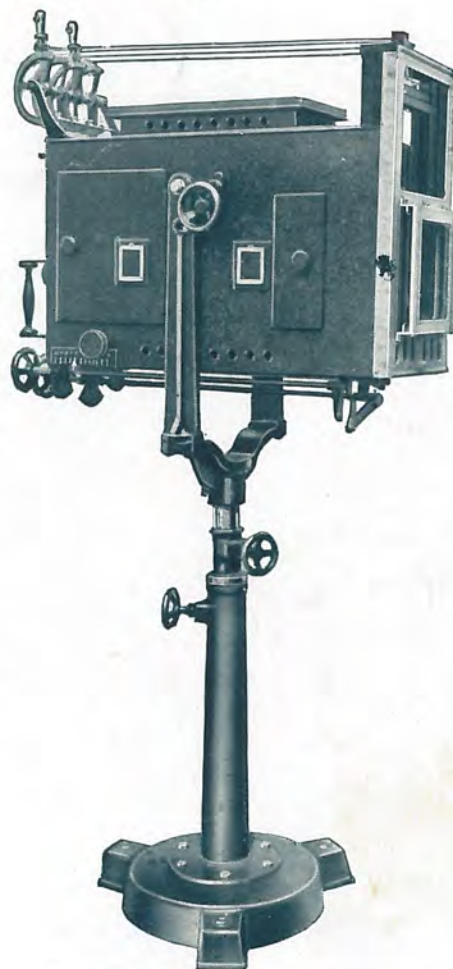
Suitable Resistances, see page 45.

Optical Effect Accessories, see page 58.

Effective throw, 150 ft. Angle of tilt below horizontal, 35°.

D.C. CARBONS (prices see page 106).

80 amp. 22 m/m diam. Positive (Cored)	Arc Volts 52
11 m/m diam. Negative (Cored and Copper-coated)	



PATTERN 70

	Ft.	In.		Ft.	In.				
A	...	1	5½	F	...	5	6½	Min.	
B	...	3	1	G	...	8			
C	...	1	0	H	...	1	1		
D	...	1	6½	J	...	1	1		
E	...	1	6½	K	...	4	11½	Max.	
F	...	6	4½	Max.	K	...	4	1½	Min.

Nett weight of Lantern, 154 lbs.

Nett weight of Stand, 145 lbs.

Telephone :
Temple Bar 7464 (6 lines).

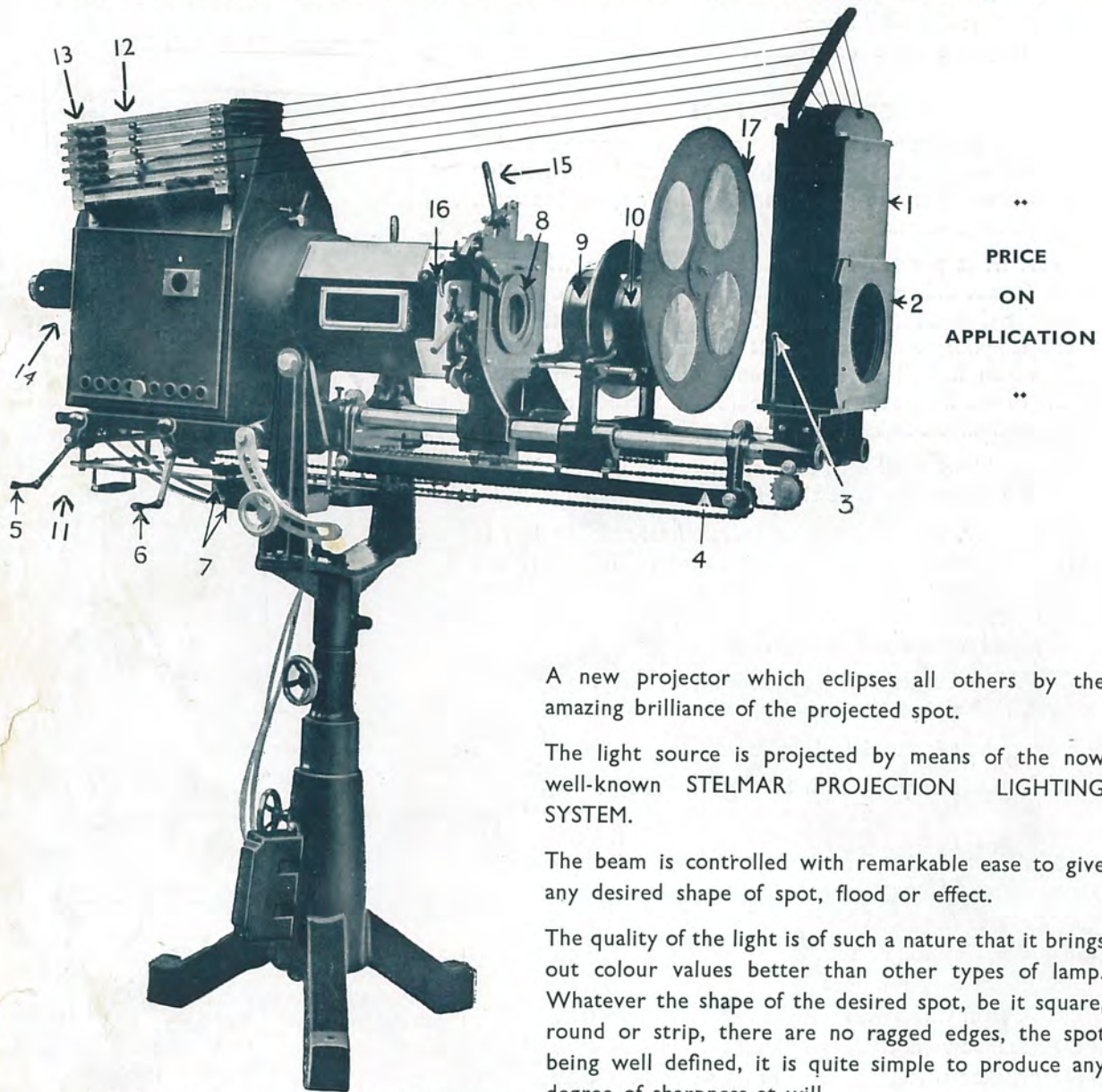
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FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND ARC SPOTLIGHTS

THE STELMAR HIGH INTENSITY SPOT AND FLOOD PROJECTOR



..
PRICE
ON
APPLICATION
..

1. Interchangeable colour frames in separate guides.
2. Runners for additional colour mediums.
3. Viewscope object finder.
4. Pre-set spot and flood indicator scale.
5. Controller for effects, flood and spot lighting.
6. Controller for spot and flood lenses.
7. Counterweights ensuring perfect balance of spotlight at any angle.
8. Adjustable spot iris diaphragm.
9. Flood lens holder.
10. Spot lens holder.
11. Master black-out controller.
12. Quick release colour medium controllers.
13. Windows indicating colour operated by controllers.
14. Viewscope object finder.
15. Heavy type vertical and horizontal cut-offs for focussed strip and masked lighting.
16. Runners for effects.
17. Interchangeable colour wheel.

A new projector which eclipses all others by the amazing brilliance of the projected spot.

The light source is projected by means of the now well-known STELMAR PROJECTION LIGHTING SYSTEM.

The beam is controlled with remarkable ease to give any desired shape of spot, flood or effect.

The quality of the light is of such a nature that it brings out colour values better than other types of lamp. Whatever the shape of the desired spot, be it square, round or strip, there are no ragged edges, the spot being well defined, it is quite simple to produce any degree of sharpness at will.

The whole projector can be tilted and moved through any angle of tilt with finger pressure, perfect counter-weighting gives wonderful balance.

A special gun sight is a feature of every Stelmar spot, enabling the operator to pre-set his spot for any desired position before opening the dowser.

Telephone :
Temple Bar 7464 (6 lines).

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STRAND ARC RESISTANCES

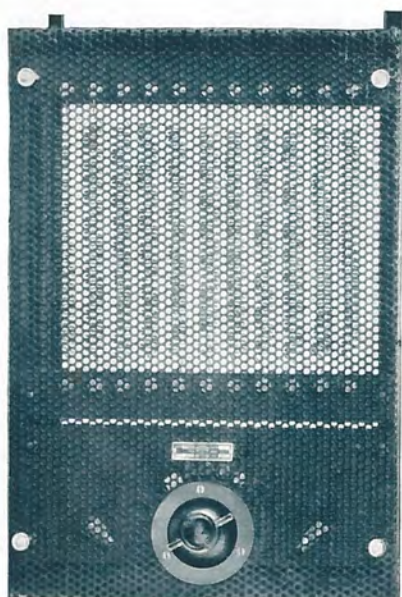


Fig. 1

Radial Switch Type.

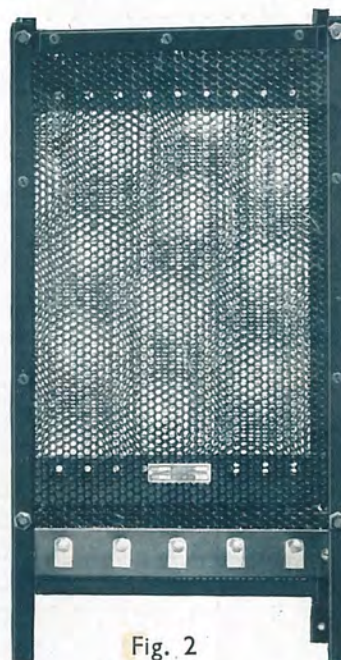


Fig. 2

Standard Type.

IMPORTANT

Covers being essential to comply with the Regulations of most local Authorities, prices include these in all cases.

Please read Resistance Notes on page 48.

SPECIFICATION

FRAME. Wrought Iron, Wall, Floor or Portable Type at same price.

SLATE. Best Selected, free from Metallic Veins.

INSULATION. All Slates are Insulated from Framework by suitable Bushings and Washers.

TERMINALS AND STUDS. Brass throughout, fitted with Two Washers and Lock-Nuts at every connection.

SWITCHES. Radial type fitted with Laminated Phosphor Bronze Brushes. "Quick Break" Knife or Chopper Type fitted to resistances with Parallel Circuits.

COVER. Perforated Steel enclosing all "Live" Metal.

Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND ARC RESISTANCES

RADIAL SWITCH TYPE (Fig. 1)

ADDITIONAL CONTACT STUDS FITTED AT SMALL EXTRA COST

Amps. Min.-Max.	Switch Contacts	Volts Absorbed—Difference between Generator and Arc Voltage							
		10	20	30	40	50	60	70	80
		£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
5-10	6	2 12 0	2 15 0	2 18 0	3 0 0	3 2 0	3 4 0	3 6 0	3 8 0
5-15	6	2 15 0	2 17 6	3 0 0	3 3 0	3 5 6	3 7 6	3 10 0	3 12 6
5-20	6	2 17 0	3 0 0	3 3 0	3 6 0	3 9 0	3 12 0	3 15 0	3 18 0
5-25	6	3 2 0	3 5 0	3 9 0	3 13 0	3 16 6	4 0 0	4 3 6	4 7 0
10-30	6	3 5 0	3 10 0	3 15 0	4 0 0	4 4 0	4 8 0	4 12 0	4 16 0
10-40	5	3 10 0	3 16 0	4 4 0	4 12 0	4 19 0	5 6 0	5 13 0	6 0 0
10-50	5	3 17 6	4 1 0	4 11 0	5 1 0	5 10 0	5 19 0	6 8 0	6 17 0
20-60	5	4 5 0	4 10 0	4 19 0	5 8 0	5 17 0	6 6 0	6 15 0	7 4 0
20-70	6	4 9 0	4 13 9	5 5 0	5 16 3	6 7 6	6 18 6	7 9 6	8 0 0
30-80	6	4 12 6	4 17 6	5 11 6	6 5 6	6 19 6	7 13 6	8 7 6	9 1 6
30-90	7	4 17 6	5 5 0	6 4 0	7 2 0	8 0 0	8 18 0	9 16 0	10 14 0
30-100	8	5 2 6	5 12 6	6 12 0	7 11 0	8 10 0	9 10 0	10 10 0	11 7 6

Amps. Min.-Max.	Switch Contacts	Volts Absorbed—Difference between Generator and Arc Voltage							
		150	160	170	180	190	200	210	220
		£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
5-10	6	4 0 0	4 2 0	4 4 0	4 6 0	4 8 0	4 10 0	4 12 0	4 14 0
5-15	6	4 15 0	4 17 6	5 0 0	5 2 6	5 5 0	5 7 6	5 10 0	5 12 6
5-20	6	5 10 0	5 13 0	5 16 0	5 19 0	6 2 0	6 5 0	6 8 0	6 11 0
5-25	6	6 5 0	6 8 6	6 12 0	6 15 6	6 19 0	7 2 6	7 6 0	7 9 6
10-30	6	6 12 0	6 16 0	7 0 0	7 4 0	7 8 0	7 12 0	7 16 0	8 0 0
10-40	5	8 5 0	8 12 0	8 19 0	9 3 0	9 7 0	9 11 0	9 15 0	9 19 0
10-50	5	10 0 0	10 9 0	10 18 0	11 6 0	11 13 0	12 0 0	12 7 0	12 14 0
20-60	5	12 15 9	13 1 0	13 6 0	13 11 0	13 16 0	14 1 0	14 6 0	14 11 0
20-70	6	14 8 9	14 15 0	15 1 0	15 7 0	15 14 0	16 0 0	16 6 0	16 12 0
30-80	6	16 4 9	16 13 0	17 1 0	17 9 0	17 17 0	18 5 0	18 13 0	19 1 0
30-90	7	18 0 9	18 8 0	18 16 0	19 4 0	19 12 0	20 0 0	20 8 0	20 16 0
30-100	8	19 6 9	19 17 6	20 8 3	20 19 0	21 10 0	22 0 0	22 10 0	23 0 0

Please read Resistance Notes on Page 48.

STRAND ARC RESISTANCES

STANDARD TYPE without Switches (Fig. 2)

PRICES OF RESISTANCES WITH ONE CIRCUIT ONLY

Max. Amps.	Volts Absorbed—Difference between Generator and Arc Voltage							
	10	20	30	40	50	60	70	80
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
10	2 5 0	2 6 0	2 7 0	2 8 0	2 9 0	2 10 0	2 11 0	2 12 0
15	2 5 6	2 7 0	2 8 0	2 10 0	2 11 0	2 12 6	2 14 0	2 16 0
20	2 6 0	2 8 0	2 10 0	2 12 0	2 13 0	2 15 0	2 17 0	3 0 0
25	2 6 6	2 9 0	2 11 0	2 14 0	2 15 0	2 17 6	3 0 0	3 4 0
30	2 7 0	2 10 0	2 13 0	2 16 0	2 17 0	3 0 0	3 4 0	3 8 0
40	2 8 0	2 11 0	2 15 0	2 19 0	3 1 6	3 4 0	3 10 0	3 15 0
50	2 9 0	2 13 0	2 17 0	3 2 0	3 5 0	3 8 0	3 15 0	4 2 0
60	2 10 0	2 15 0	3 0 0	3 5 0	3 9 0	3 13 0	4 1 0	4 9 0
70	2 11 0	2 17 0	3 3 0	3 8 0	3 13 0	3 18 0	4 7 0	4 16 0
80	2 12 0	2 19 0	3 5 0	3 11 0	3 17 0	4 3 0	4 13 0	5 3 0
90	2 13 0	3 0 0	3 7 0	3 14 0	4 1 0	4 8 0	4 19 0	5 10 0
100	2 14 0	3 1 0	3 9 0	3 17 0	4 5 0	4 13 0	5 2 0	5 17 0

Max. Amps.	Volts Absorbed—Difference between Generator and Arc Voltage							
	150	160	170	180	190	200	210	220
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
10	2 17 0	2 18 0	2 19 0	3 0 0	3 1 0	3 2 6	3 4 0	3 5 6
15	3 2 0	3 3 0	3 4 0	3 10 0	3 11 0	3 12 0	3 13 0	3 19 0
20	3 7 0	3 8 0	3 9 0	3 15 0	3 16 0	3 17 0	3 18 0	4 4 0
25	3 12 0	3 13 0	3 14 0	4 0 0	4 1 0	4 2 0	4 3 0	4 9 0
30	3 17 0	4 3 0	4 4 0	4 5 0	4 6 0	4 7 0	4 13 0	4 14 0
40	4 12 0	5 8 0	5 9 0	5 11 0	5 13 0	6 0 0	6 2 0	6 4 0
50	5 2 0	5 18 0	5 19 0	6 1 0	6 8 0	6 10 0	6 12 0	6 14 0
60	6 7 0	6 8 0	6 14 0	6 16 0	6 18 0	7 0 0	7 7 0	7 9 0
70	6 17 0	7 3 0	7 4 0	7 6 0	7 8 0	7 15 0	7 17 0	8 4 0
80	7 12 0	7 13 0	7 14 0	8 1 0	8 3 0	8 5 0	8 12 0	8 14 0
90	8 2 0	8 3 0	8 9 0	8 11 0	8 13 0	9 0 0	9 12 0	9 14 0
100	8 17 0	8 18 0	9 4 0	9 6 0	9 18 0	10 0 0	10 10 0	10 12 0

Please read Resistance Notes on Page 48.

STRAND ARC RESISTANCES

PARALLEL TYPE

The resistances shown on page 47 can be divided into a number of circuits controllable by separate switches, prices being calculated as follows :—

The price of a single circuit resistance of the total load required should be taken from page 47 and the following additions made.

								Terminals only	Including enclosed Knife Switches.		
								s. d.	£	s.	d.
For each circuit 10-20 amps.	...	...	...	...	...	...	...	5 6	...	0 16	9
„ „ 21-40 „	...	...	...	...	...	...	...	6 6	...	1 0	0
„ „ 41-60 „	...	...	...	...	...	...	...	7 6	...	1 3	6

Parallel type resistances fitted with contactors for operation from remote control panels (see page 86) can be supplied to order.

IMPORTANT

Generally the voltage across a hand fed Arc is 45 to 50, but in view of the fact that many different types are in general use some burning satisfactorily with 30 volts across the carbons, whereas others require 70 volts, it is advisable in all cases to ascertain and specify the voltage recommended by the makers.

It is also important that the voltage of supply be kept constant at all loads and the carbons correctly adjusted. Inattention to these points can cause serious overheating and possibly breakdown, especially with low voltage resistances.

The difference between voltage of supply and voltage across arc is the voltage absorbed in the resistance on which basis our prices are calculated.

It is not advisable to fix resistances in confined spaces or close to ceilings, free ventilation being essential.

Parallel type resistances with knife or contactor switches should always be used for heavy currents and for high voltages.

STRAND CYCLORAMA LIGHTING



Cyclorama at Shakespeare Memorial Theatre, Stratford-on-Avon

The uses of the cyclorama are now fully realised in the theatre. While the true cyclorama conditions can seldom be achieved, its principles may be applied to a lesser degree with advantage.

The more elaborate form, such as installed at the Royal Opera House, Covent Garden, consists of a special white cloth suspended from a track (in the flies), which completely encompasses the stage. The cloth hangs free of all creases and folds, and is flooded from banks of STRAND pattern 49 floods, arranged on the three-colour (Red, Blue and Green) system. There is a total of 150-1000 watt Floods. The wattage of the blue is approximately double that of either the Red or Green. Thus, beyond the Proscenium, the stage is bounded by an evenly lighted cyclorama,

rendering the scenic artist free of the need for masking wings and borders, enabling him to give free rein to his imagination.

It is generally impossible for one reason or another to achieve the ideal above. Several compromises are possible, and IT IS NOT NECESSARY FROM THE POINT OF VIEW OF LIGHTING EFFECTS TO USE A CURVED CYCLORAMA. A very satisfactory effect can be obtained by plastering the rear wall of the stage, or even with a white back cloth stretched tightly. However, it must be remembered the greater the space occupied by the cyclorama, the less masking required.

Not only must the lighting for the cyclorama itself be carefully considered, but the remainder of the stage installation must be planned so that stray light from the acting area does not ruin the effect. Here acting area lanterns, spot battens and front of circle spots have their part to play.

For Repertory Theatres and Cinemas the three-colour system which provides innumerable colours by mixing the three primaries in different proportions with specially wound C.D. Dimmers (see page 71) gives the utmost satisfaction. However, for certain kinds of work, particularly where a limited number of effects are required for the long run of a particular production, special colours may prove more economical.

Strand Electric are justly proud of their achievements in both fields, and the experience of their theatre lighting department is placed at the customer's disposal, not only as regards the lighting equipment, but the design of the cyclorama as well.

Among the most notable of the STRAND three-colour cyclorama installations are :—

The Covent Garden Opera House.	The Shakespeare Memorial Theatre, Stratford-on-Avon.
The Regal Cinema, Edmonton. (The 60 ft. Cyclorama is the largest in any Cinema in Europe.)	
The "Old Vic," London.	Gaumont Palace, Hammersmith, London.
The Westminster Theatre, London.	Gaumont Palace, Lewisham, London.
Sadlers Wells Theatre, London.	Gaumont Palace, Wood Green, London.
Citizen House, Bath.	Gaumont Palace, Chelsea, London.
Arts Theatre, Cambridge.	Bristol University Theatre.

Cyclorama or Panorama Lighting Battens have also been installed in Palace, Savoy, Dominion, Adelphi, Phoenix, and Drury Lane Theatres, London.

Telephone : Temple Bar 7464 (6 lines).	STRAND ELECTRIC AND ENGINEERING CO., LTD.	Telegraphic Address : Spotlite, Rand, London.
FLORAL STREET, COVENT GARDEN, W.C.2		

STRAND CYCLORAMA LIGHTING

CIRCULAR CYCLORAMA FLOOD

PATTERN 55



500 Watt

This lantern, which is a shortened version of the Pattern 35 Arena, designed for horizontal use, has superseded the Pattern 34 Panorama Lantern. Owing to its more efficient light distribution it gives an intensity of light on the cyclorama with a 500 watt General Service Lamp that is actually greater than the old German type or panorama with a 1000 watt projector or special tubular lamp. Four such lanterns (one red, one green and two blue) would be eminently suitable for small school stages, etc. A much higher efficiency is shown when comparing the wattage used on this principle and that required when wide spread 150 watt battens are used for this purpose.

SPECIFICATION

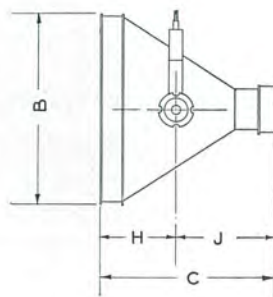
Lantern constructed in lead-coated steel, efficiently ventilated, fitted with circular hinged door carrying 16 in. diameter circular metal colour frame. One-piece Type 35 domed "SUNRAY" reflector. Tilting fork and 3 in. diameter locking wheels. Wired with 2 ft. rockbestos tails. Finish : black enamel outside white enamel inside.

PRICE (exclusive of Lamp) ... **£4 0 0**

							£	s.	d.
E 70	Extra 16 in. diameter metal colour frames	...	...	...	...	...	2	2	0 per doz.
E 71	Ditto, complete with assorted gelatines	...	...	...	...	...	2	14	0 „
E 72	Ditto, complete with assorted "Chromoid" colours	...	...	...	...	...	4	10	0 „
E 65	"L" clamp for 1½ in. barrel	...	...	...	...	...	0	2	6 each

Lamp : 500 watt Angle Burning General Service.

Beam Angle 105°.
Cut Off Angle 120°.



Minimum throw, 6 ft.

For Polar Curves see
Pattern 60, page 21.

PATTERN 55

	Ft.	in.		Ft.	in.
B ...	1	4½	H ...	6½	
C ...	1	3	J ...	8½	

Nett weight of Lantern, 18½ lbs.

Telephone :
Temple Bar 7464 (6 lines).

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Telegraphic Address :
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STRAND CYCLORAMA LIGHTING

SQUARE CYCLORAMA FLOOD

PATTERN 49 B



1000 Watt

This lantern has been specially designed for large cyclorama work. Its shape renders it convenient, as it takes little space from back to front.

SPECIFICATION

Lantern constructed in lead-coated steel, efficiently ventilated. Runner to take metal colour frame, hinged spring flap at top. Four-piece Type 49A silvered glass "SUNRAY" reflector. Tilting fork and 3 in. diameter locking wheels. 10 ampere plug with earth connection and clip. Finish : black enamel outside, white enamel inside.

PRICE (exclusive of Lamp) ... **£4 12 6**

							£	s.	d.
E 67	Metal colour frames (16 $\frac{3}{4}$ in. x 16 $\frac{3}{4}$ in.)	...	...	...	...	...	1	7	6 per doz.
E 68	Ditto, complete with gelatine colours	...	...	...	...	...	2	2	0 "
E 69	Ditto, complete with "Chromoid" colours	...	...	...	...	...	3	18	6 "
E 129	Ditto, complete with coloured glass strips	...	...	...	...	...	5	14	0 "
E 65	"L" clamp for use when suspended on a barrel	...	...	...	...	...	0	2	6 each

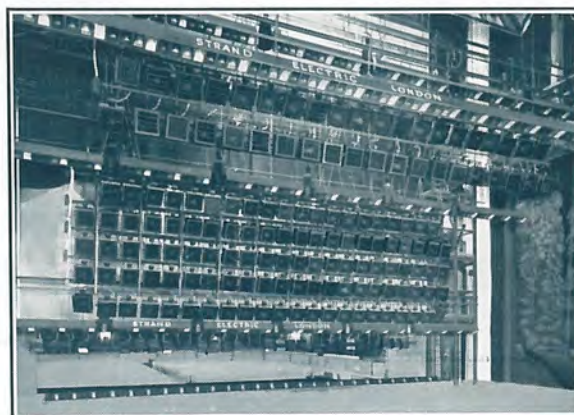
Prices can be quoted for Angle Iron Frames and Suspensions on receipt of requirements.

Overall Dimensions and Polar Curves : see Pattern 49A, page 23.

Nett weight of Lantern, 28 lbs.

Lamp : 1000 watt Angle Burning General Service. G.E.S. Cap.

Beam Angle 100°. Cut Off Angle 105°. Minimum throw, 8 ft.



Cyclorama Lighting Bank, Covent Garden Opera House

Telephone :
Temple Bar 7464 (6 lines).

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FLORAL STREET, COVENT GARDEN, W.C.2

STRAND CYCLORAMA LIGHTING

CYCLORAMA BATTEN 500 Watt

The Pattern 55 Lantern can be incorporated, with a slight loss of efficiency, into a batten of 12 in. square compartments. The loss is more than counterbalanced by its convenience on a crowded stage, as the size is brought down to an absolute minimum. This batten was used at the Regal Cinema, Edmonton, with outstanding success.

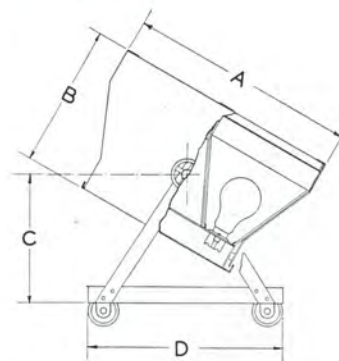
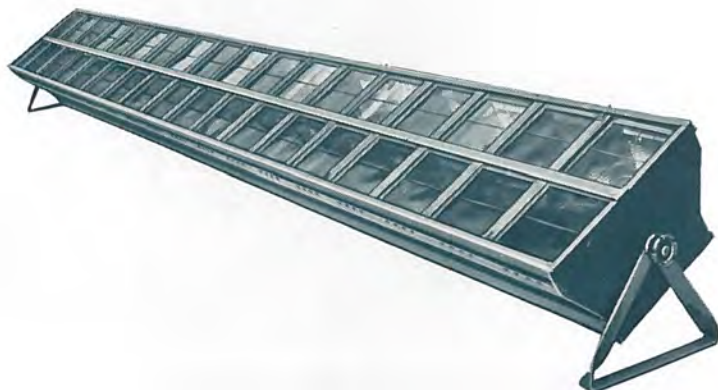
SPECIFICATION

Constructed in sheet steel, efficiently ventilated. Compartments at 12 in. centres. Each fitted with G.E.S. holder and Type 35 "SUNRAY" silvered glass reflector in sprung mounting. Metal colour frames 11 $\frac{3}{4}$ in. square with guard wires. Wired in coloured rockbestos in four colours. Batten arranged in 4 ft. lengths. Complete with shackles, pear rings, and horseshoes for adjusting tilt. Finish : black, enamel outside, white enamel inside.

PRICE (on application)

								£	s.	d.	
E 62	Gelatine colours, cut to size	...	...	...	...	...	...	0	6	0	per doz.
E 63	"Chromoid" colours, cut to size	...	...	...	...	...	...	1	16	0	"
Lamps : 500 watt Gasfilled General Service. G.E.S. Cap.											

CYCLORAMA GROUNDROWS, TYPE P, 60 or 100 Watt



CYCLORAMA GROUNDROW.

	Ft.	Ins.
A ...	1	3
B ...		9
C ...	1	8
D ...	1	0

These are designed for illumination of the cyclorama from below as an auxiliary effect to the top lighting. The groundrows give a highly diffused light, entirely free from "hot spot." They are made in two rows as illustrated, in order that double the number of compartments may be allocated to the blue.

SPECIFICATION

Constructed in sheet steel, painted white inside, black enamel outside. Compartments at 6 in. centres. Fitted with metal colour frame and guards, complete with gelatine colours. Supplied in 6 ft. sections, carried on end supports giving variable tilt. Three-piece "SUNRAY" silvered glass reflector, giving wide angle beam of light. China E.S. holders, wired in rockbestos cable. Groundrows can be made up as trucks and fitted with castors (see diagram above).

PRICE (on application)

								£	s.	d.	
E 130	Gelatine colours, cut to size	...	...	...	...	...	...	0	2	0	per doz.
E 131	"Chromoid" colours, cut to size...	...	...	...	...	...	...	0	6	0	"

Lamps : 60 or 100 watt Theatre Batten. E.S. Cap.

Nett weight per 6 ft. length, 105 lbs.

Telephone :
Temple Bar 7464 (6 lines).

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STRAND CYCLORAMA LIGHTING

ROYAL OPERA HOUSE, COVENT GARDEN, LONDON

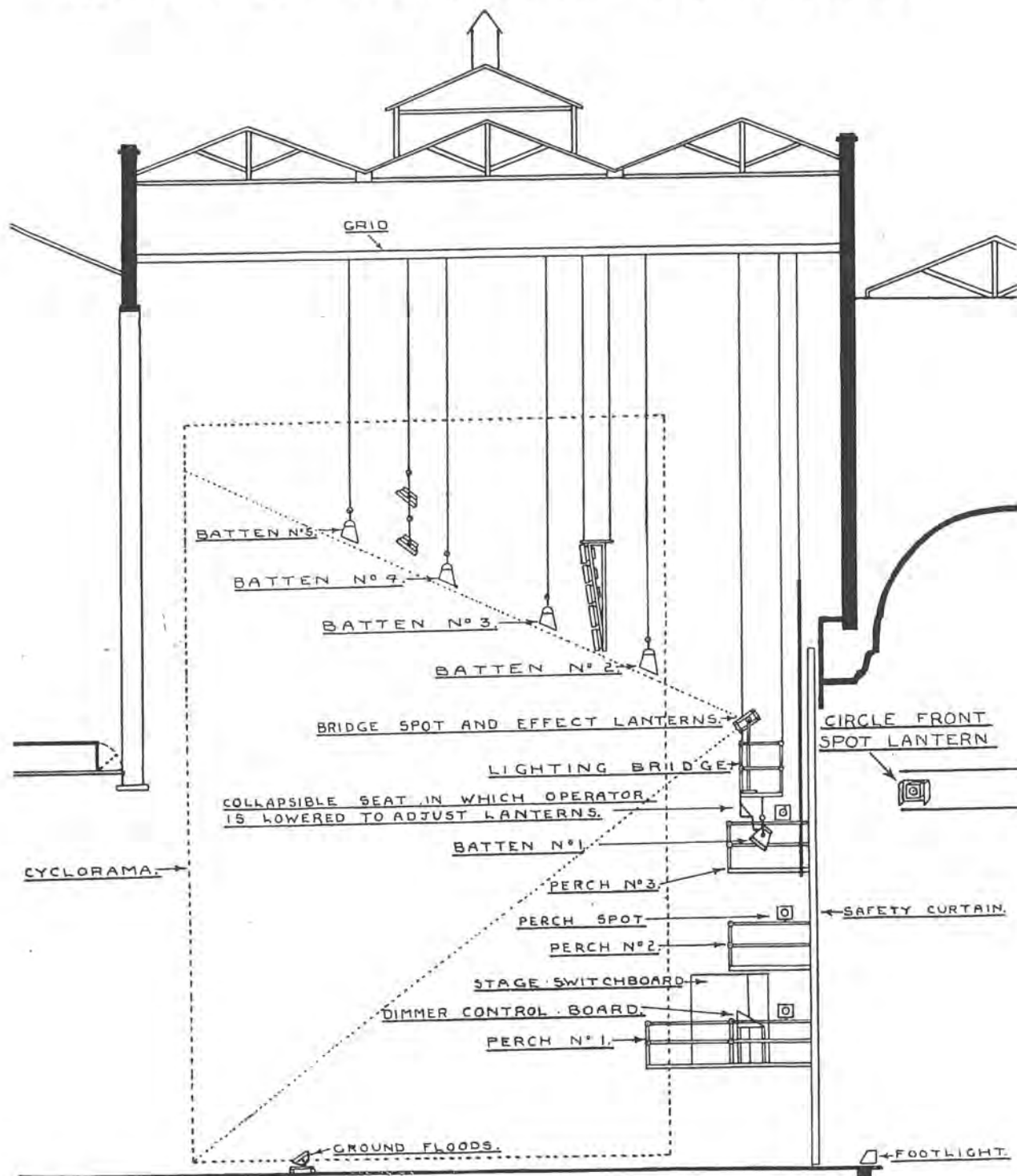


Fig. 7.—General View of the New Strand Electric Stage Lighting Installation, showing Battens, Footlights and Bank of One Hundred and Fifty 1,000-watt Lanters used to illuminate the Cyclorama.

Telephone :
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Telegraphic Address :
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STRAND EFFECTS LIGHTING

The possibilities of optical effects are fully realized by the producer of to-day. There are situations where an optical effect, be it realist or Impressionist, gives a finishing touch to the production unobtainable in any other way.

Wide though the range is of standard optical effects that Strand Electric have to offer, special facilities are provided for carrying out the producer's own ideas. Optical effects, provided their lanterns and projection beams are borne in mind when designing the scenery, may be projected successfully on the largest stages. This is well demonstrated by their extensive use in "The Ring" at the Covent Garden Opera House. Here the effects of under the Rhine, The Rainbow Bridge, the Castle of Valhalla, The Ring of Fire, and The Rise of the Rhine, and extensive use of Clouds are all obtained by optical means.

The varied uses to which STRAND effects have and are put, in revues, pantomimes, and musical plays, at famous London theatres like Drury Lane, The Palace, Lyceum, Hippodrome, and The Saville, are too well known to need description. Extensive use is made of them abroad in the Casino de Paris and the Folies Bergere in Paris.

In the serious theatre, effects must be kept strictly in the background, as they must not distract attention from the actor. However many are the special effects that have been successfully used at the Shakespeare Memorial Theatre, Stratford-on-Avon, The Old Vic, Sadlers Wells, and Westminster Theatre, and in each of these theatres scene projection to a greater or lesser degree has been successfully carried out.

It is not generally realized that scene projection is feasible from STRAND optical effects lanterns without expensive apparatus, if allowance is made in the design of the set and lighting plot. It is not possible anywhere in the world whatever the apparatus used, to project a full stage set and yet fully light the actors; it is, however, quite possible to compromise very satisfactorily.



Optical Effects at Covent Garden Opera House for "Rheingold"

For the Cinema, it is worth noting, that STRAND optical effects fit both the Brenograph and the Ross Effects Machines. Opportunities for their use in Organ Interludes and stage shows are constantly occurring.

Apart from the optical projection of effects, effects lighting can take many forms, and Strand Electric have produced many memorable results in the past, as, for instance, the fireworks effects in "Waltzes from Vienna," at the Alhambra Theatre, the Samoiloff productions at the London Hippodrome, providing complete change of scene under the eyes of the audience, and the Indian Rope Trick in "Golden Toy," at the London Coliseum, carried out by Ultra Violet Rays.

Telephone :
Temple Bar 7464 (6 lines).

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Telegraphic Address :
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STRAND EFFECTS LIGHTING

PATTERN 51. 1000 Watt OPTICAL EFFECTS PROJECTOR

This is a compact lantern, designed for small stages, auditorium, and exhibition work. It will project satisfactorily all the STRAND Optical Effects attachments listed on page 58. Depending on a projector lamp as light source, it makes optical effects possible for all those whom A.C. or limitations of current have prevented from using arcs.



SPECIFICATION

Lantern constructed in sheet steel, efficiently ventilated. Access to lamp by hinged door at rear. 5 in. diameter double plano-convex condenser. Type 43 tray, giving vertical and axial adjustment for lamp filament, complete with spherical chromium-plated reflector. Focussing by knob under lantern. Runner to take all standard optical effects attachments. Rockbestos tails, tilting fork and quadrant with 3 in. diameter locking wheels. Removable handle at rear. Finish : black crystalline enamel outside, matt black inside.

PRICE (exclusive of Lamp) ... £6 6 0

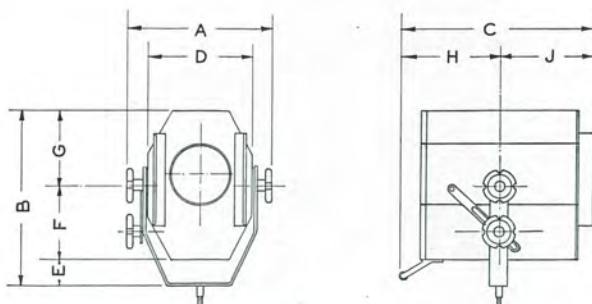
									£	s.	d.
F 66	Heavy pattern telescopic stand (minimum height, 4 ft. 3 in. ; maximum, 7 ft. 0 in.)								1	7	6 each
F 64	Safety chain with snap hook	...	...	...	...	...	...	...	0	2	0 „
F 65	Adjustable barrel clamp	...	...	...	...	...	...	...	0	5	6 „

The tray may be fitted with Mogul Pre-focus Holder at 10/- extra.

Heavy base stand and cradle, instead of fork, can be supplied without extra charge.

Lamp : 1000 watt Class A.I Tubular or Class B.I Round Bulb Projector.

Maximum throw, 60 ft.



PATTERN 51

		Ft.	In.			Ft.	In.
A	...	1	1	F	...	7	
B	...	1	4	G	...	7	
C	...	1	4½	H	...	8½	
D	...		9½	J	...	8	
E	...		2				

Nett weight of Lantern, 26 lbs.



Pattern 51 with Wave effect

Telephone :
Temple Bar 7464 (6 lines).

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FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
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STRAND EFFECTS LIGHTING

PATTERN 33 OPTICAL EFFECTS ARC PROJECTOR 20—40 Amps.



An inexpensive general purpose arc effects lantern for stage use.

SPECIFICATION

Double cased lantern, asbestos lined, constructed in heavy gauge planished steel, efficiently ventilated. Fitted with 5 in. diameter double plano-convex condenser. Tilting fork and quadrant with 3 in. diameter locking wheels. Runner to take all standard optical effects attachments. Asbestos curtain at rear. Removable handle.

ARC.—Three-movement 20/30 amp. hand feed, carried on sliding tray with locking screw underneath. Rockbestos wiring to pair of connection terminals.

PRICE (complete with Arc Lamp) ... £12 0 0

F 66 Heavy pattern telescopic stand (minimum height 4 ft. 3 in., maximum 7 ft. 0 in.) £1 7 6 each

For suitable Resistance, see page 46.

D.C. CARBONS (prices see page 106).

20/30 amps. 16 m/m Positive (Cored). 9 m/m Negative (Solid).
Arc Volts 48.

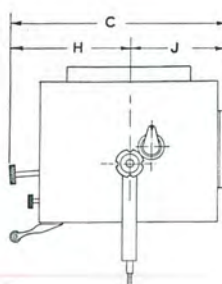
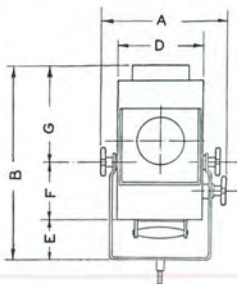
30/40 amps. 20 m/m Positive (Cored). 12 m/m Negative (Solid).
Arc Volts 50.

A.C. CARBONS.

13 m/m diameter White Flame. Arc Volts 25.



Pattern 33 with Cloud Effect



PATTERN 33

			Ft.	In.
A	...	...	1	1½
B	...	...	1	8
C	...	...	1	9½
D	...	...		9¼
E	...	...		4
F	...	...		6
G	...	...		10
H	...	...		11½
J	...	...		10

Nett weight of Lantern, 38 lbs.

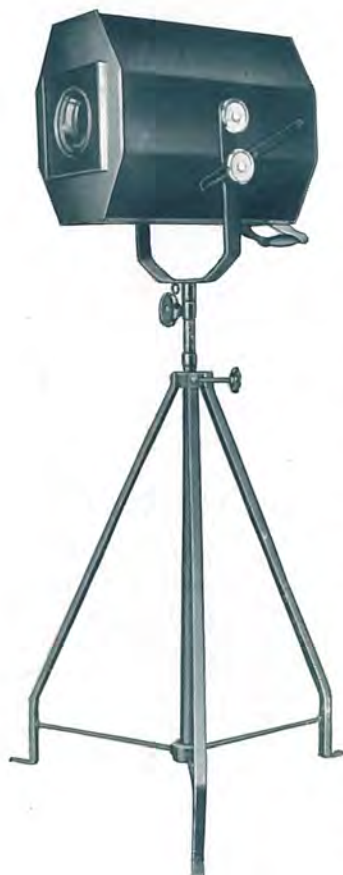
Telephone :
Temple Bar 7464 (6 lines).

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Telegraphic Address :
Spotlite, Rand, London.

STRAND EFFECTS LIGHTING

PATTERN 61 OPTICAL EFFECTS PROJECTOR, 50 amp.



For the large stage, or where the general level of stage illumination is high, an arc lamp is essential, if satisfactory projection of optical effects is to be obtained. Although this lantern is primarily intended for use on the stage, it may be used with considerable success on front of house throws up to 100 ft., provided that provision is made for auxiliary support of the long lens tubes required. For throws over this, attention is drawn to the lanterns listed on pages 42 and 43.

SPECIFICATION

Lantern constructed with cast aluminium front and back, sheet steel sides. Double lined and louvre ventilation top and bottom, giving efficient ventilation. Heavy fork and quadrant with 3 in. diameter locking wheels. 5 in. diameter double plano-convex condenser. Front runners to take all standard optical effects attachments, space between runner and lantern for cooling blower, which should be used with stationary scene projection slides.

Six-movement hand-feed Arc Lamp, carrying up to 50 amperes. Lamp wired in rockbestos, terminating in a pair of heavy connection terminals. Access to lamp adjustments through door at rear of lantern. Extended feed knob projects through rear door. Duplex glazed spyholes each side. Rack and pinion focussing by external knob. Indicator scale showing position of arc lamp. Finish : black crystalline enamel outside, matt black inside, nickel-plated fittings.



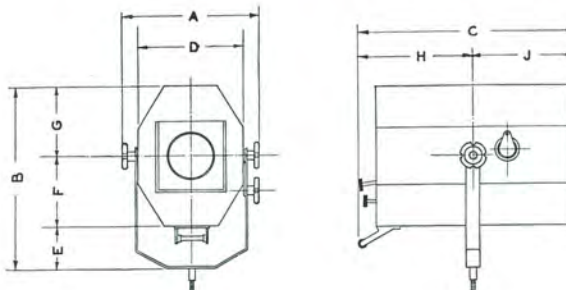
PRICE (exclusive of Stand)... £19 19 0

F 133 Special heavy pattern stand (maximum height 6 ft. 0 in., minimum 3 ft. 6 in.) £2 15 0 each
D.C. CARBONS (prices see page 106).

20 m/m diameter Positive. 8 m/m diameter Negative (Cored and Copper-coated). Arc Volts 52.

PATTERN 61									
			Ft.	In.				Ft.	In.
A	...	...	1	3	F	...	...	8	8
B	...	...	1	8 ³ / ₄	G	...	...	8	0
C	...	...	1	10 ¹ / ₂	H	...	...	1	10 ¹ / ₂
D	...	...		11 ¹ / ₂	J	...	...		
E	...	...		4 ³ / ₄					

Nett weight : Lantern, 56 lbs. Stand, 17 lbs.



Telephone :
Temple Bar 7464 (6 lines).

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STRAND EFFECTS LIGHTING

EFFECT ATTACHMENTS



Cloud Effect with Wide Angle Lens

It is not possible to list all the many effects that are available, but the principal ones will be found below. Quotations for painting of special discs or the design of special apparatus will be furnished on receipt of requirements. All effects are manufactured in the special effects workshop adjacent to the Strand Electric's demonstration theatre. Thus alterations to standard designs or construction of new effects to the customers' ideas can be carried out and demonstrated under working conditions, with the shortest possible delay.

The effects are supplied as standard, with a British-made variable speed double spring clock drive, to run from two to three hours, but an electric motor drive can be fitted at **£5 10 0** extra (complete with speed regulator) Nett.

The effects, with the exception of those marked *, are mounted in circular aluminium cases 10½ in. diameter (approx. weight 9 lbs.), or rectangular wooden boxes, 17½ in. x 10½ in. (approx. weight, 9½ lbs.).

In either case they are fitted with turntable runners, enabling the projected effect to run in any desired plane. The front

of the cases carry runners to take mask, tinting gelatine if required, and objective lens (not included in prices below).

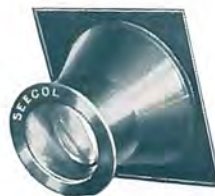
				£	s.	d.	
F 134	Fleecy Cloud (white clouds against black background)	...	...	10	0	0	each Nett
F 135	Storm Cloud (dark clouds against light background)	...	...	10	0	0	„ „
F 136	Rain, (F 137) Snow, (F 138) Waterfall, or (F 139) Running Water...	...	...	10	0	0	„ „
F 140	Smoke, (F 141) Flames, or (F 142) Sandstorm...	...	...	10	0	0	„ „
F 143	Rough Sea Wave, (F 144) Water Ripple, or (F 145) Aurora Borealis (rectangular wooden box)	...	...	9	0	0	„ „
F 146	Jazz Colour (stationary colours and moving glasses)	...	...	10	0	0	„ „
F 147	Dissolving Colour (moving colour wheel and ten stationary glasses)	...	...	10	0	0	„ „
F 148	Forked Lightning Effect (hand operated) (with two interchangeable copper slides)	...	...	4	2	6	„ „
F 149	*Aurora Borealis (motor driven) (revolving drum, fitted with 500 watt General Service Lamp). (Exclusive of Lamp)	...	...	8	8	0	„ „
F 150	Turntable Front and Slide Carrier (weight, 5½ lbs.)	...	...	2	2	0	„ „

SHORT FOCUS OBJECTIVE LENSES

Short Focus. Consisting of sheet metal case with sliding brass lens jacket, fitted with securing thumbscrew, best quality British lenses, and backplate to fit standard effect attachment runner.

F 151	Extra wide angle, 18 ft. 6 in. circle at 10 ft.	...		£	s.	d.	
F 152	Wide angle, 12 ft. 0 in.	„ „	...	1	7	6	each
F 153	Narrow angle, 9 ft. 0 in.	„ „	...				

Approx. weight of all three sizes is 2½ lbs.



Objective Lens

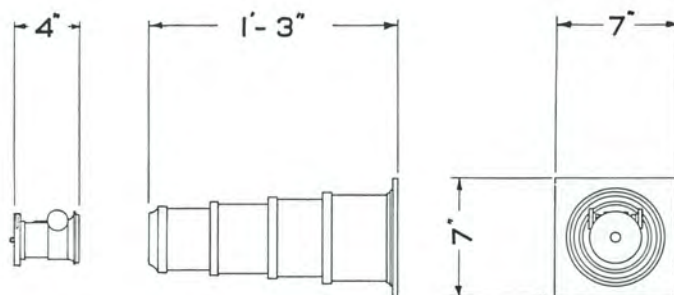
Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND EFFECTS LIGHTING

LONG FOCUS OBJECTIVE LENSES



3-draw front, as drawing. Weight $7\frac{1}{2}$ lbs.

PRICE ... **£3 10 0** each

Brass Rack and Pinion Jackets to take 2 in. diam. lenses.

PRICE ... **£1 7 0** each

Tube lens units complete with 2 in. diam. British made lenses of any focal length set out in table below.

PRICE ... **£1 0 0** each

TABLE GIVING FOCUS OF LENS FOR VARIOUS LENGTHS OF THROW

Distance between Lantern and Screen.	4 in.	5 in.	6 in.	7 in.	8 in.	9 in.	10 in.	11 in.	12 in.	13 in.	14 in.	15 in.	Distance between Lantern and Screen.
	Diameter of Disc.												
Ft.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft.
10	7 6	6 0	5 0	4 3	3 9	3 4	3 0	2 9	2 6	2 4	2 2	2 0	10
11	8 3	6 7	5 6	4 9	4 2	3 8	3 4	3 0	2 9	2 6	2 4	2 2	11
12	9 0	7 2	6 0	5 2	4 6	4 0	3 7	3 3	3 0	2 9	2 7	2 5	12
13	9 9	7 10	6 6	5 7	4 11	4 4	3 11	3 7	3 3	3 0	2 9	2 7	13
14	10 6	8 5	7 0	6 0	5 3	4 8	4 2	3 10	3 7	3 3	3 0	2 9	14
15	11 3	9 0	7 6	6 5	5 8	5 0	4 6	4 1	3 9	3 6	3 3	3 0	15
20	15 0	12 0	10 0	8 7	7 6	6 8	6 0	5 6	5 0	4 7	4 3	4 0	20
25	18 9	15 0	12 6	10 9	9 4	8 4	7 6	6 10	6 3	5 9	5 4	5 0	25
30	22 6	18 0	15 0	12 10	11 3	10 0	9 0	8 2	7 6	6 11	6 5	6 0	30
35	26 3	21 0	17 6	15 0	13 1	11 8	10 6	9 6	8 9	8 1	7 6	7 0	35
40	30 0	24 0	20 0	17 2	15 0	13 4	12 0	10 10	10 0	9 2	8 6	8 0	40
45	33 9	27 0	22 6	19 3	16 10	15 0	13 6	12 3	11 3	10 4	9 8	9 0	45
50	37 6	30 0	25 0	21 5	18 9	16 8	15 0	13 8	12 6	11 6	10 9	10 0	50

Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.

FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND EFFECTS LIGHTING

ULTRA-VIOLET RAYS

This effect was much developed by the late Mr. Julian Wylie, in conjunction with Strand Electric "Effects" experts, for use in his famous pantomimes, but its applications are many. In principle the stage is flooded with invisible light (ultra-violet rays), either from front of house arcs, fitted with special ultra-violet glass filters, or from mercury vapour lamps with U.V. filters in the footlights. Under this light only objects treated with U.V. dope can be seen. The dope can be applied to costumes and scenery, and is an ideal way of obtaining "ghost" illusions, humorous or otherwise. Skeletons can be made to walk, and invisible men produced with ease. Treated musical instruments can mysteriously play, the actual player being untreated, remains invisible. The dope is fluorescent, *not* phosphorescent, so that on blacking out the U.V. lantern everything vanishes.

The following colours can be obtained: Red, Green, Pink, Yellow, Orange, Mauve, Blue, and Blue-Green, the last two being invisible under white light. The costumes can either be treated in our Effects Workshop, or the dope is sold separately, for use by the scenic artist.

		£	s.	d.	
F 151	U.V. dope per pint (any colour) (<i>special prices for quantity</i>)	2	0	0	Nett
F 152	U.V. "Invisible Green" make-up (2 oz. jar)	0	7	6	Nett
F 153	Ultra-Violet Glass Filters, heat resisting, mounted in sheet metal frame to fit our standard F.O.H. Arc	2	10	0	each Nett*
F 250	D.C. Mercury Vapour Lamp, in suitable housing, and fitted with U.V. Screen	25	0	0	each
	Suitable Resistance	3	3	0	"

Prices for special requirements on application

** Subject to market fluctuations*



F 250



F 154

STRAND U.V. EXPERIMENTAL OUTFIT

F 154 This box contains six bottles of U.V. dope (Invisible Green, Blue, Green, Yellow, Orange, and Red) and tin of make-up for experimental work or lecture demonstrations, etc. Complete with 2-watt U.V. argon gasfilled glow lamp, in special reflector with lead and B.C. adaptor, 240 volt A.C. or D.C. Ideal for school, college, or home use.

PRICE ... £1 10 0 Nett

SAMOILOFF EFFECT

An effect utilizing complimentary colours, costumes can be changed from one design to another, white men into black, by merely changing the colour of the light. Three colours are used in conjunction with special dyes and make-up.

		s.	d.	
F 155	Samoiloff Red No. 27a, (F 156) Blue No. 29a, (F 157) Mauve No. 38a Gelatine Filters (22 in. x 17½ in.)	0	8	each Nett
F 158	Samoiloff Red Make-up in jars (large size, 4 ozs.)	10	6	" "
F 159	Small size, 2 ozs.	7	6	" "

Prices for special make-up and dyes on application

Telephone :
Temple Bar 7464 (6 lines).

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AND ENGINEERING CO., LTD.**

FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
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STRAND EFFECTS

SOUND EFFECTS

Effects are manufactured to give realistic imitation by mechanical means of the more usual noises required for stage productions. Special effects can be made up in our effects workshop to the producer's requirements. Those with electric motor drive include :—

Aeroplane, Motor Car, Motor Cycle, Wind and Sirens.

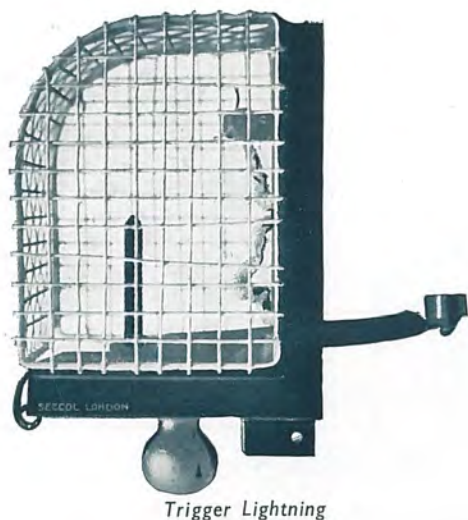
Hand drive :—

Wind, Rain, Surf and Thunder.

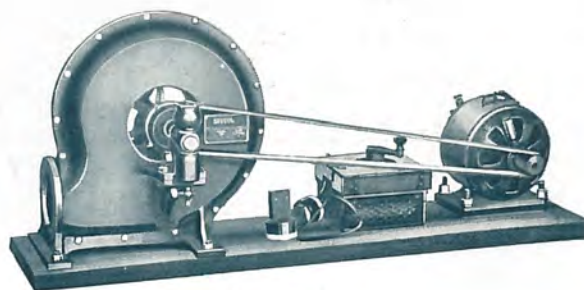
AMPLIFIER SOUND SETS

Strand Electric are in a position to quote for sale or hire for sound equipments, to reproduce gramophone records or speech.

QUOTATIONS ON RECEIPT OF FULL PARTICULARS



Trigger Lightning



Electric Blower

LIGHTNING FLASH

As illustrated, safer and easier to operate than the old-fashioned carbon stick and file. Should be used in series with 20 amp. resistance. (See page 45.)

PRICE (complete with 5 yds. stage flex) ... **£2 10 0** each

ELECTRIC BLOWERS

These are self-contained units, consisting of rotary blower, coupled to a variable speed motor. They are manufactured in various sizes and are useful for flag waving, wind, and silk flame effects.

PRICE, SALE OR HIRE, ON RECEIPT OF REQUIREMENTS

Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND EFFECTS LIGHTING

MAROONS

These are supplied ready fused for connection to the theatre supply. They should be placed in a large metal container, such as a tank or dustbin, before firing. It is inadvisable to fire more than three from the same container.

											s. d.
F 160	Small size	...	...	...	...	...	...	...	...	...	1 0 each Nett
F 161	Medium size	...	...	...	...	...	...	...	...	...	2 0 „ „
F 162	Large size (outdoor)	...	...	...	...	...	...	...	...	...	3 0 „ „
F 163	Blank Cartridges (for Signal Gun) (gun may be hired)	...	...	...	...	...	...	...	...	...	4 0 per doz. Nett

SMOKE AND FLASH POWDER

F 164	Slow burning Smoke Powder (white smoke)	...	...	...	...	...	...	...	...	...	6 0 per lb. Nett
F 165	Element Box for use with above (500 watt universal voltage)	...	...	...	...	...	...	...	...	...	17 6 each
F 166	Smoke Powder with flash	...	...	...	...	...	...	...	...	...	6 0 per lb. Nett
F 167	White Flash Powder	...	...	...	...	...	...	...	...	...	8 6 „ „
F 168	Yellow Flash (gun-cotton)	...	...	...	...	...	...	...	...	...	3 0 per doz. packets Nett
F 169	Firing Box for the above, with pair of terminals for fuse	...	...	...	...	...	...	...	...	...	7 6 each
F 170	Smoke Puffs, self-contained, with fuse for connection to mains (small size)	...	...	...	...	...	...	...	...	...	1 0 each Nett
F 171	Medium size	...	...	...	...	...	...	...	...	...	2 0 „ „
F 172	Large size	...	...	...	...	...	...	...	...	...	3 0 „ „
F 173	Red Fire	} Transformation Powder (ignition by fusee match)	...	...	...	...	...	...	...	...	3 0 per lb. Nett
F 174	Green Fire		...	...	...	...	...	...	...	...	
F 175	Lycopodium Powder	...	...	...	...	...	...	...	...	...	8 6 per lb. Nett
F 176	Special Firing Container	...	...	...	...	...	...	...	...	...	12 6 each
F 177	Smoke Cotton (ignition by naked flame)	...	...	...	...	...	...	...	...	...	2 6 per lb. Nett
F 178	Finger Flashes (ignited with the fingers)	...	...	...	...	...	...	...	...	...	8 0 per doz. Nett

The above prices are subject to market fluctuations.

Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

SPECIAL APPARATUS

PATTERN 34 SPECIAL EFFECTS FLOOD

The introduction of the new gaseous discharge lamps has led to much speculation as to their ultimate application to stage lighting. Their economical current consumption, and the fact that the light is coloured at source, and not by absorption with filters, provides a very efficient job.

However, at present the light which is emitted is very crude in colour and, furthermore, cannot be dimmed, other than by shutters in front of the lamp. Their use is, therefore, precluded for other than special effects.

Strand Electric have converted their panorama flood to take the "Osira" mercury discharge street lighting lamp.

Due to the fact that the light given out contains very little red, it has one or two useful applications in special cyclorama effects.

A very effective use is made of these lanterns in "Das Rheingold" at the Covent Garden Opera House. Here the characters by dimming the ordinary stage lighting and flooding the acting area with the mercury discharge lamp lose their colour and therefore become aged in appearance.

For Lantern, complete with metal guard and "SUNRAY"
cylindrical reflector £4 10 0

For above, if fitted with ultra-violet ray filter for fluorescent
effects (see page 60) £9 10 0

"Osira," 400 watt Street Lighting Lamp, for voltages from
200-250, 50 cycles See page 105

F 179 Suitable choke to be used in series with above £2 14 0



ILLUMINATED FOUNTAIN

A self-contained unit, with an octagonal basin 48 in. across. No water main or waste pipe is required. Constructed of lead-coated sheet steel, and fitted with illuminated centre feature. Powerful silent running rotary pump with electric motor drive. Can be supplied for any voltage. Standard finish, dark green enamel. Special finishes to order.

Special designs of this type of fountain can be supplied to customer's requirements.

Telephone :
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC
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Telegraphic Address :
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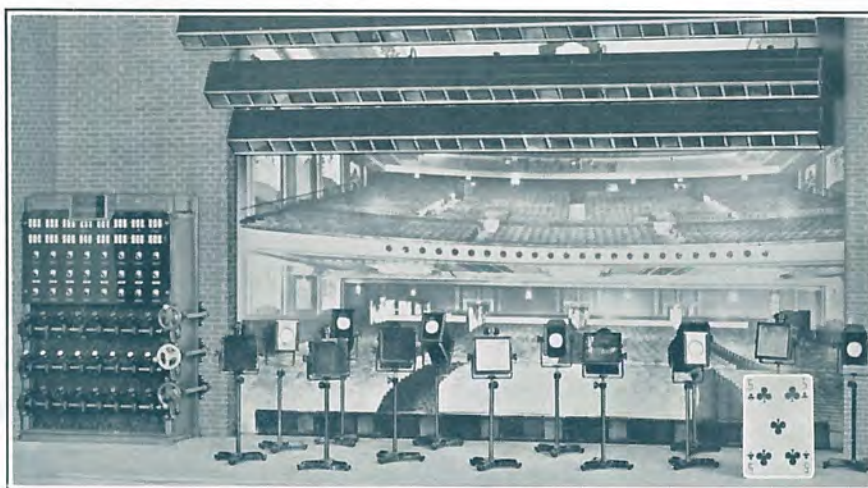
SPECIAL APPARATUS

MODEL THEATRE EQUIPMENT

As there is only a limited demand for lighting apparatus for model theatres, this is made to special order only. Many famous models have been equipped by Strand Electric, among which are the complete working stage model with dimmers, etc., for Lord Howard de Walden, and the Jubilee Model theatre for Mr. George Tonge, F.R.I.B.A., at the Building Centre, New Bond Street, during the latter half of 1935, and which subsequently toured the country in aid of theatrical charities.

Model stage lighting has been made up to various scales for scenic designers and producers to enable them to try out their lighting effects in advance.

Listed below is some of the apparatus made up for the Jubilee Model theatre, samples of which are on view in the showroom. Each unit is an exact model of the standard apparatus to a scale of 1 in. = 1 ft. 0 in.



"Jubilee" Model Theatre Apparatus with standard playing card

						PRICES	
						s.	d.
F 180	Miniature pattern 49 wing flood, on stand	...	...	...	...	17	0 each Nett
F 181	" " 43 focus lamp, " " " " " "	...	...	...	...	18	0 " "
F 182	Three- or four-colour footlight, compartments at 7/8 in. centres	...				4	6 per compartment Nett
F 184	Three- or four-colour batten, compartments at 7/8 in. centres	...				4	6 " "
LAMPS.	3.5 volt, .3 amp. spotlight lamps	...	...	...	...	0	6 each
	6.0 volt, .3 amp. " " " " " "	...	...	...	...	0	9 " "
	Medical lamps, 3.5 volt, complete with 2 ft. miniature flex and M.E.S. adaptor					1	0
	20 watt 100 or 200/240 volt, 2 x 1 in. lamps, S.B.C.	...	...	...	...	3	0

Transformers of any output supplied to customers' requirements.

Telephone :
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STRAND PLUGS AND SOCKETS



Connector Type

CONNECTOR TYPE

Made in moulded "Kalenite," with threaded outlet cord grip.

		PRICE
G 194	5 amp. size, male and female	2s. 6d. per pair
G 195	10 amp. size, male and female, with earth connection	3s. 0d. ,,
G 196	10 amp. size, male and female, with buckle clips ...	3s. 6d. ,,

DOMINO TYPE

Miniature plugs for connecting up stage prop. fittings.

		PRICE
G 197	3 amp. size	1s. 9d. per pair
G 198	5 amp. size	2s. 3d. ,,

TWO-PIN TYPE

30 amp. plugs, of hard wood with fibre base and substantial brass pins.

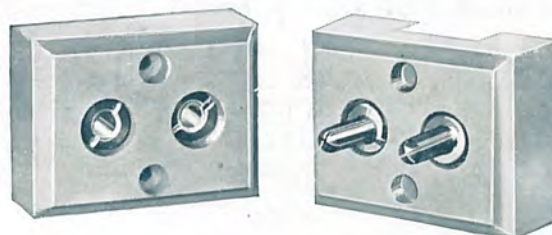
G 199	Male, female, or differential	PRICE
		3s. 9d. each

30 amp. sockets, consisting of solid china bases with heavy brass terminals.

G 200	Male, female or differential... ..	3s. 9d. ,,
-------	------------------------------------	------------



Two-pin Type

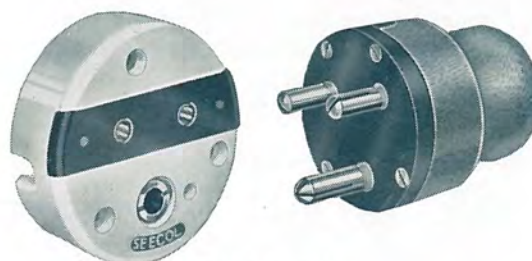


Two-pin Type

THREE-PIN TYPE

Plug top of hard wood with fibre base. Sockets of white porcelain with black fibre strip. Substantial brass pins. "Earth" pin extra large with visible connection.

		PRICE
G 201	15 amp. plug, male or female	4s. 0d. each
G 202	15 amp. socket, male or female	4s. 0d. ,,
G 203	30 amp. plug, male or female	6s. 0d. ,,
G 204	30 amp. socket, male or female	6s. 0d. ,,



Three-pin Type

Telephone :
Temple Bar 7464 (6 lines).

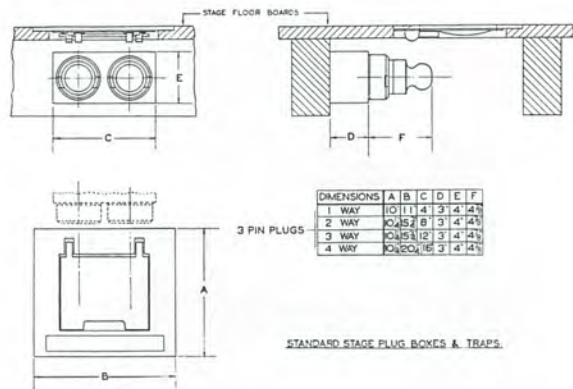
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STRAND DIP BOXES

Strand 3-pin 30 amp. sockets are the recognised standard for dip boxes all over the country. Care should be taken by electrical contractors to use only this type when carrying out a stage installation. This will ensure that no difficulties will be experienced by touring companies fitting up their own equipment in a particular theatre. Plug boxes consist of 30 amp. china sockets (see page 65) mounted on an undrilled sheet steel box.

		PRICE	£	s.	d.
G 186	... 1-way	with plug and socket	0	18	0
G 187	... 2-way	" "	1	9	6
G 188	... 3-way	" "	2	0	0
G 189	... 4-way	" "	2	9	6



STAGE TRAPS



Malleable iron chequered casting, made to allow access to 3-pin plugs mounted as shown in diagram.

									£	s.	d.
G 190	1-way	...	...	...	...	...	...	...	0	19	6
G 191	2-way	...	...	...	...	...	...	...	1	2	6
G 192	3-way	...	...	...	...	...	...	...	1	2	6
G 193	4-way	...	...	...	...	...	...	...	1	5	6

STAGE (CARGO) FLEX (Manufactured by a Member of the C.M.A.)

SPECIFICATION

Plain copper wires, cotton lapped, insulated with two coats of vulcanized indiarubber, taped, cores twisted together, jute filled, jute braided, and compounded overall.

Present Standard	Old Standard	Amperes as I.E.E. Regulations	Twin per 100 yds.	Three-core per 100 yds.
			£ s. d.	£ s. d.
40/.0076	... 40/36	5.0	3 4 0	4 11 0
70/.0076	... 70/36	10.0	4 3 9	5 17 0
110/.0076	... 110/36	15.0	5 5 9	7 9 0
162/.0076	... 162/36	20.0	6 8 9	9 3 4
140/.010	... 140/33	25.0	9 5 6	13 0 6
195/.010	... 195/33	30.0	11 9 6	16 2 3

"WORKSHOP" FLEX (Manufactured by a Member of the C.M.A.)

SPECIFICATION

Plain copper wires, cotton lapped, insulated with two coats of vulcanized indiarubber, conductors twisted together, made circular, braided and compounded overall.

Present Standard	Old Standard	Amperes as I.E.E. Regulations	Twin per 100 yds.	Three-core per 100 yds.
			£ s. d.	£ s. d.
14/.0076	... 14/36	2.0	1 0 9	1 10 4
23/.0076	... 23/36	3.0	1 5 0	1 17 6
40/.0076	... 40/36	5.0	1 12 6	2 7 9
70/.0076	... 70/36	10.0	2 7 6	3 9 9
110/.0076	... 110/36	15.0	3 5 6	4 14 6

Subject to Market Fluctuations

Telephone :
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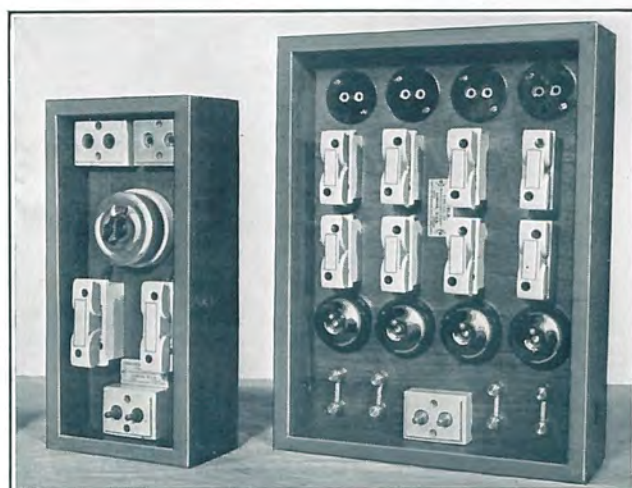
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FLORAL STREET, COVENT GARDEN, W.C.2

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STRAND PLUGS AND SOCKETS

PLUG BOARDS

Constructed of teak, they are made to withstand the hard usage customary on the stage. Below are listed a few standard types, but they can be made up to suit individual requirements.



G 210

G 206

G 205 4-way Stage Shoe

(3-30 amp. 2-pin female plugs, paralleled to one 30 amp. male feed)

PRICE ... £1 1 0 Nett

Plug, switch, and fuse boards, with 30 amp. main plug, and 10 amp. plugs to each way. 15 ampere quick break switches, Home Office pattern fuses, and protected series terminals for dimmers if required.

											PRICE
											£ s. d.
G 206	4-way, 2-pin	...	...	...	...	...	...	...	...	...	4 0 0 Nett
G 207	6-way, 2-pin	...	...	...	...	...	...	...	...	...	6 0 0 „
G 208	4-way, 3-pin	...	...	...	...	...	...	...	...	...	4 10 0 „
G 209	6-way, 3-pin	...	...	...	...	...	...	...	...	...	6 12 6 „

ARC BOARDS

With 30 amp. rotary quick break switch, male 30 amp. socket for incoming main. Female 30 amp. for outgoing main. Series terminals or socket for resistances. 30 amp. Home Office fuses.

											PRICE
											£ s. d.
G 210	1-way	...	...	...	...	...	...	...	...	...	2 10 0 Nett
G 211	2-way	...	...	...	...	...	...	...	...	...	4 17 6 „
G 212	4-way	...	...	...	...	...	...	...	...	...	9 5 0 „

Telephone :
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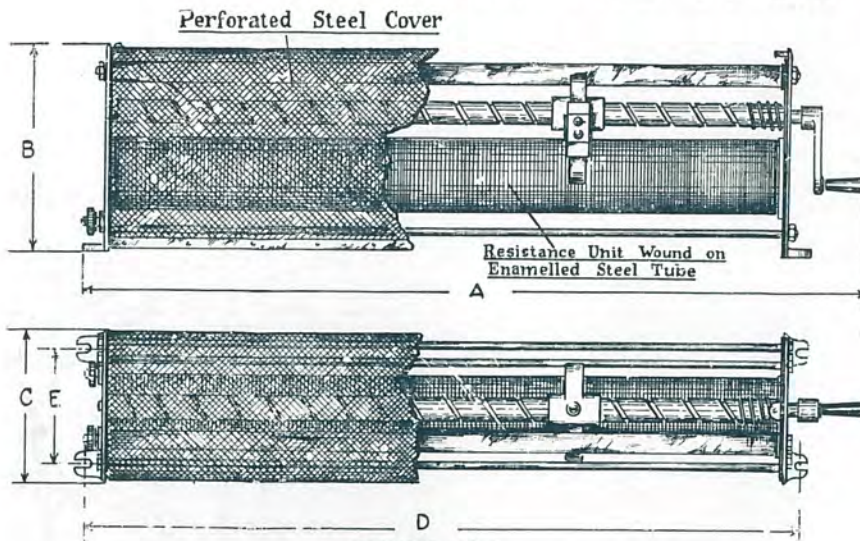
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STRAND DIMMERS

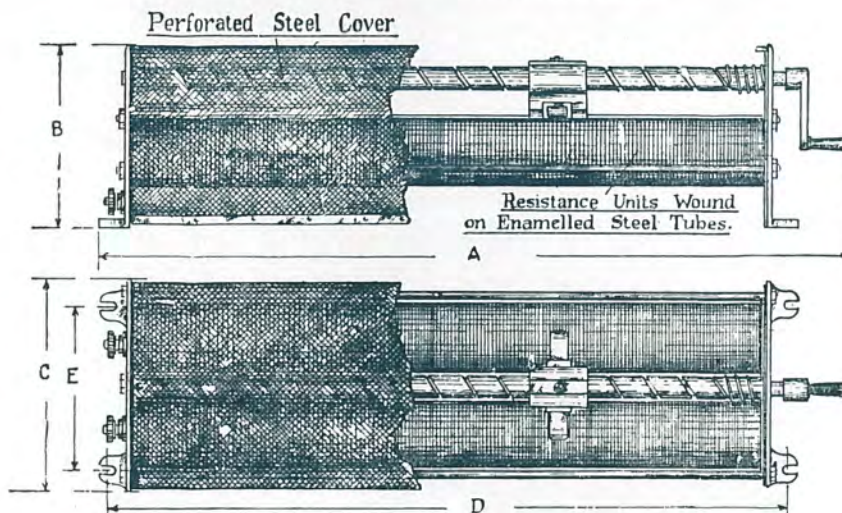
DIMENSIONS TYPE T1 and T2



TYPE - T.1.

"SEECOL" WORM DRIVEN TUBULAR DIMMER							
Length of Tube	Overall A	Dimensions B	C	Fixing Centres D E		Maximum Loading	Weight
15"	20"	6"	4"	16 ³ / ₄ "	3 ¹ / ₅ "	1000Watts	11 lbs
18"	23"	6"	4"	19 ³ / ₄ "	3 ¹ / ₁₆ "	1250 "	11 ¹ / ₂ "
21"	26"	6"	4"	22 ³ / ₄ "	3 ¹ / ₁₆ "	1500 "	12 "

Handwheel or Crank-handle Fitted as Desired



TYPE - T.2.

"SEECOL" WORM DRIVEN TUBULAR DIMMER							
Length of Tubes	Overall A	Dimensions B	C	Fixing Centres D E		Maximum Loading	Weight
15"	20"	6 ³ / ₄ "	7 ³ / ₄ "	16 ¹ / ₄ "	6"	2000Watts	16 lbs
18"	23"	6 ³ / ₄ "	7 ³ / ₄ "	19 ¹ / ₄ "	6"	2500 "	17 ¹ / ₂ "
21"	26"	6 ³ / ₄ "	7 ³ / ₄ "	22 ¹ / ₄ "	6"	3000 "	19 "

Handwheel or Crank-handle Fitted as Desired



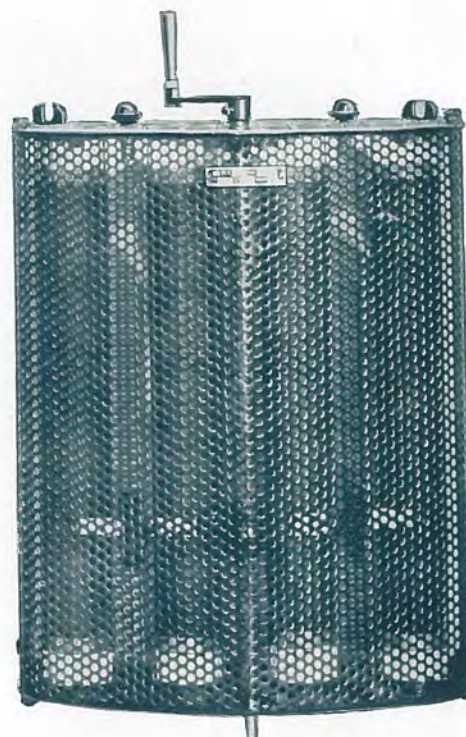
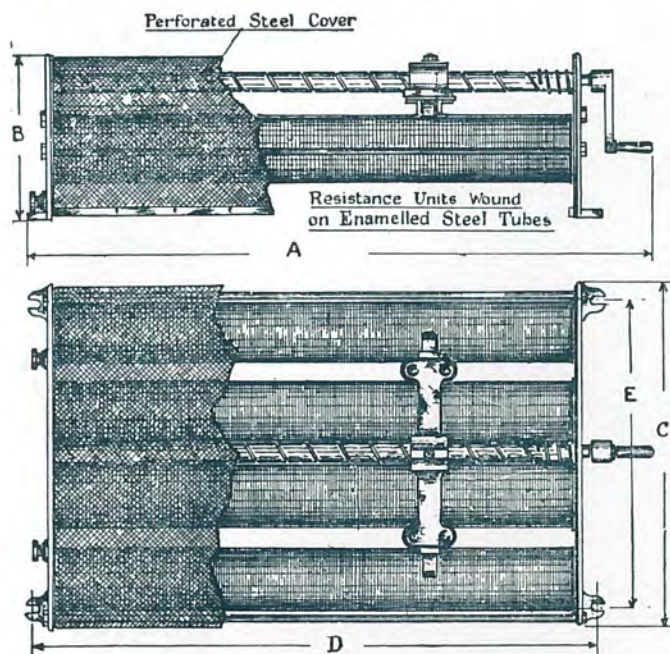
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STRAND DIMMERS

DIMENSIONS TYPE T 4.



Tubular Dimmer

WORM DRIVEN TUBULAR DIMMERS							
Length of Tubes	Overall	Dimensions		Fixing Centres		Maximum Loading	Weight
	A	B	C	D	E		
15"	20"	8"	15 1/4"	16 1/2"	12 3/4"	4000 Watts	27 lbs
18"	23"	8"	15 1/4"	19 1/2"	12 3/4"	5000 "	29 "
21"	26"	8"	15 1/4"	22 1/2"	12 3/4"	6000 "	31 "

STRAND TUBULAR DIMMERS (Illustrated on preceding page and above)

These dimmers comprise GRADUATED windings of nickel copper resistance wire on vitreous enamelled tubes, mounted between cast-iron end-plates with compressed micanite or bakelite insulation. The windings are carefully calculated to ensure an EVEN FLICKERLESS VARIATION FROM "FULL ON" TO "BLACK-OUT." The brushes are of laminated phosphor bronze, mounted on cast-iron carriages which can be arranged for operation by the following methods:—

WORM DRIVEN BY HANDWHEEL. SLIDING—HAND OPERATED

A "QUICK BREAK" can be fitted to any of the above types. Terminals can be fitted for back or external connection.

Watts	Type	PRICE	Watts	Type	PRICE	Watts	Type	PRICE
1000	T1 15"	£5 0 0	2000	T2 15"	£7 10 0	4000	T4 15"	£15 0 0
1250	T1 18"	£5 10 0	2500	T2 18"	£8 5 0	5000	T4 18"	£16 10 0
1500	T1 21"	£6 0 0	3000	T2 21"	£9 0 0	6000	T4 21"	£18 0 0

STRAND SLATE TYPE SLIDER DIMMERS (Illustrated on following page)

These dimmers, which are wound and insulated in a similar manner to the tubular type, have several improved features, the chief being the provision of a "Quick Break" to off position. The spacing between windings and cover has been considerably increased, and the new pattern spring loaded floating brush, whilst sliding freely, makes it impossible to accidentally break circuit. Dimmers can be wound for universal voltage and fitted with plug as illustrated at 7s. 6d. extra.

Watts	Type	PRICE	Watts	Type	PRICE	Watts	Type	PRICE
60	SS 12"	£1 10 0	800	LS 15"	£2 10 0	1600	2LS 15"	£4 0 0
100			900			1800		
200			1000	LS 18"	£3 0 0	2000	2LS 18"	£5 0 0
300			1250			2500		
400	SS 15"	£1 15 0	1500	LS 21"	£3 10 0	3000	2LS 21"	£6 0 0
500								
600	SS 18"	£2 0 0						
700								

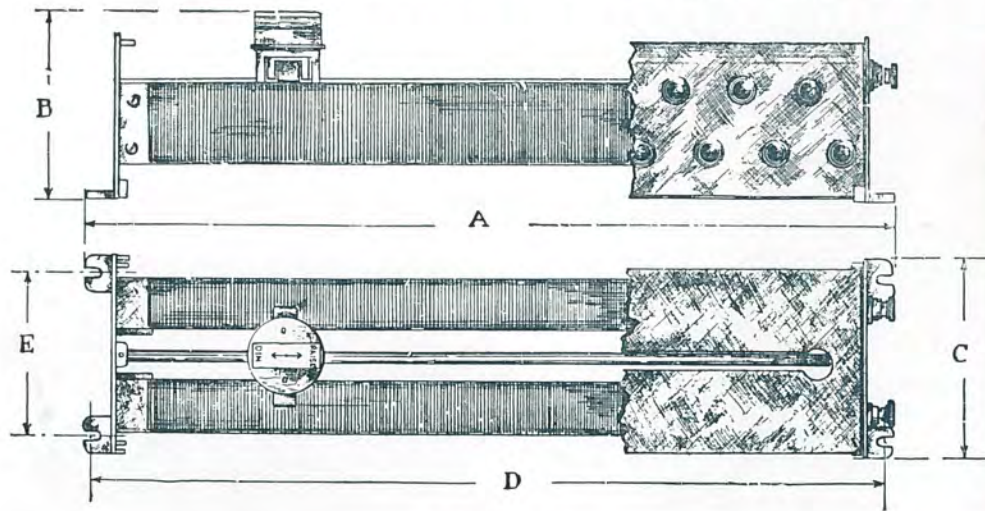
Telephone :
Temple Bar 7464 (6 lines).

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FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

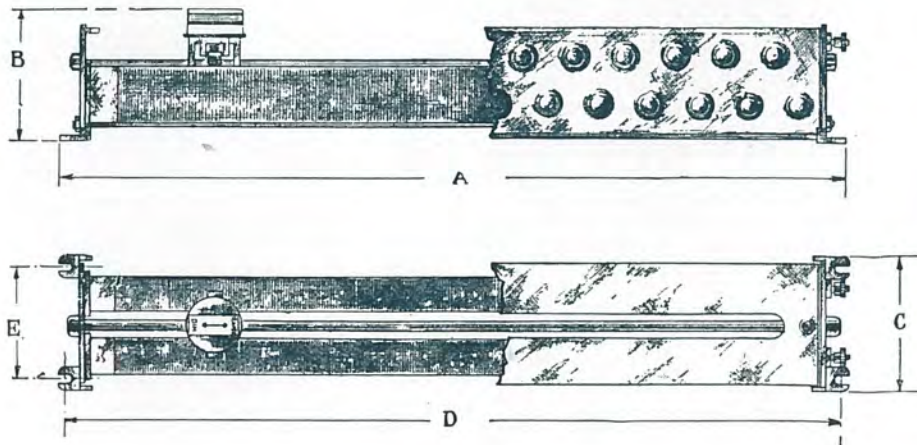
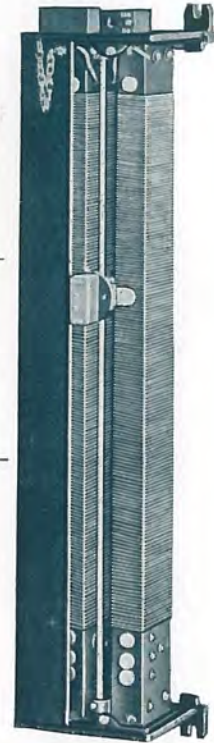
STRAND DIMMERS

DIMENSIONS TYPE L.S. and S.S.



TYPE L.S.

Length of Slates	SLIDING SLATE TYPE DIMMERS						Maximum Loading	Weight
	Overall A	Dimensions B C		Fixing Centres D E				
L.S. 15"	17 1/4"	4 7/8"	5 1/8"	16 3/4"	4"		800/900 Watts	13 lbs
L.S. 18"	20 1/4"	4 7/8"	5 1/8"	19 3/4"	4"		1000/1050 "	14 "
L.S. 21"	23 1/4"	4 7/8"	5 1/8"	22 3/4"	4"		1100/1500 "	15 "
2 L.S. 15"	16 7/8"	5"	10 1/2"	16 1/8"	9 3/4"		1600/1800 "	26 "
2 L.S. 18"	19 3/8"	5"	10 1/2"	19 1/8"	9 3/4"		2000 "	28 "
2 L.S. 21"	22 7/8"	5"	10 1/2"	22 1/8"	9 3/4"		2500/3000 "	30 "



TYPE S.S.

Length of Slates	SLIDING SLATE TYPE DIMMERS						Maximum Loading	Weight
	Overall A	Dimensions B C		Fixing Centres D E				
S.S. 12"	14 1/8"	4"	4 3/4"	13 1/2"	3 3/4"		200 Watts	7 lbs
S.S. 15"	17 1/8"	4"	4 3/4"	16 1/2"	3 3/4"		300/500 "	8 "
S.S. 18"	20 1/8"	4"	4 3/4"	19 1/2"	3 3/4"		600/700 "	9 "



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STRAND ELECTRIC
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STRAND PLATE DIMMERS

In the design of these Dimmers the utmost care has been taken to provide for all the essential requirements of the Modern Theatre and Cinema, with special attention to the following points:—

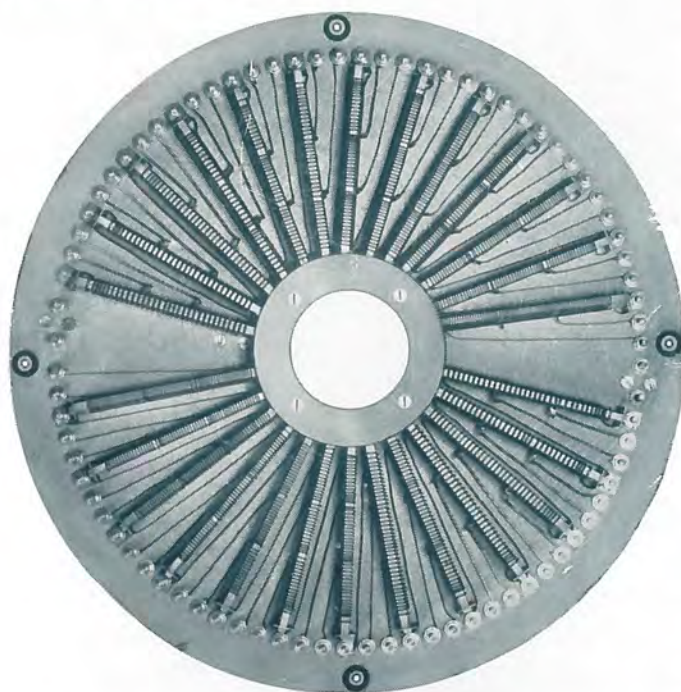
“FLICKERLESS” DIMMING

The provision of a large number of Contacts is not in itself sufficient to ensure this prime necessity, and we have therefore not only provided an ample number of Steps but have carefully calculated and graded them so that each Contact bears the best possible relationship to those adjacent to it.

EASE OF OPERATION

The various Sections of the Resistance are connected to heavy Brass Studs, contact with which is made by a Double-ended Switch-arm fitted with Spring Loaded Anti-Friction Carbon Brushes at its extremities, thus ensuring smooth working, efficient contact and durability.

INTERIOR ASSEMBLY



This illustration of panel removed from case shows the ease with which resistance units can be changed to suit an altered load.

By removing central securing ring and loosening connections to contact studs any element can be withdrawn.

16" dia. plate maximum load, 2,500 watts.

19" dia. plate maximum load, 5,000 watts.

INSULATION

Special attention has been given to this in view of the fact that many Plate Dimmers are deficient in this quality, especially when new and when installed in damp situations. By the provision of Bakelite or Mica Inserts and suitable Air-gaps, between the "Sindanyo" Panel which carries all live metal and the Framework, leakage caused by surface dampness or otherwise has been guarded against to the utmost extent.

RATING

The windings are liberal and the Dimmers may be left in circuit for many hours without fear of breakdown. The enclosing castings are of aluminium, which is most suitable for even dissipation of heat.

ADAPTABILITY

The Dimmers can be fitted in almost any conceivable position for operation, through Wall, Floor or Ceiling and can be banked in tiers with any desired arrangement of individual and master control.

DESIGN

In this respect the aim has been to provide a sturdy piece of apparatus capable of satisfactorily standing up to all reasonable requirements. At the same time all parts, including the Resistance Elements, are standardised and can be replaced speedily and with ease by the Resident Electrician at any Theatre or Cinema.

PRICES ON RECEIPT OF FULL PARTICULARS

Telephone :
Temple Bar 7464 (6 lines).

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FLORAL STREET, COVENT GARDEN, W.C.2

STRAND DIMMERS

"SUNSET" DIMMERS, TYPES A, AI and B (Element Pattern)

These dimmers employ the element principle used on the "STRAND" plate dimmers, but are made up in a rectangular form without the aluminium casing. This, while retaining the majority of the advantages of the plate type, effects considerable reduction in cost of construction. This unit is altogether superior electrically and mechanically to the "open coil" type usually used. The "Sunset" element dimmer is fitted as standard to the switchboards illustrated on the following pages.

FRAME.—Wrought iron, suitably arranged for switchboard mounting, for removal from either back or front of board. Also suitable for banking for motor drive.

PANELS.—Natural grade "Sindanyo" of ample size to prevent warping.

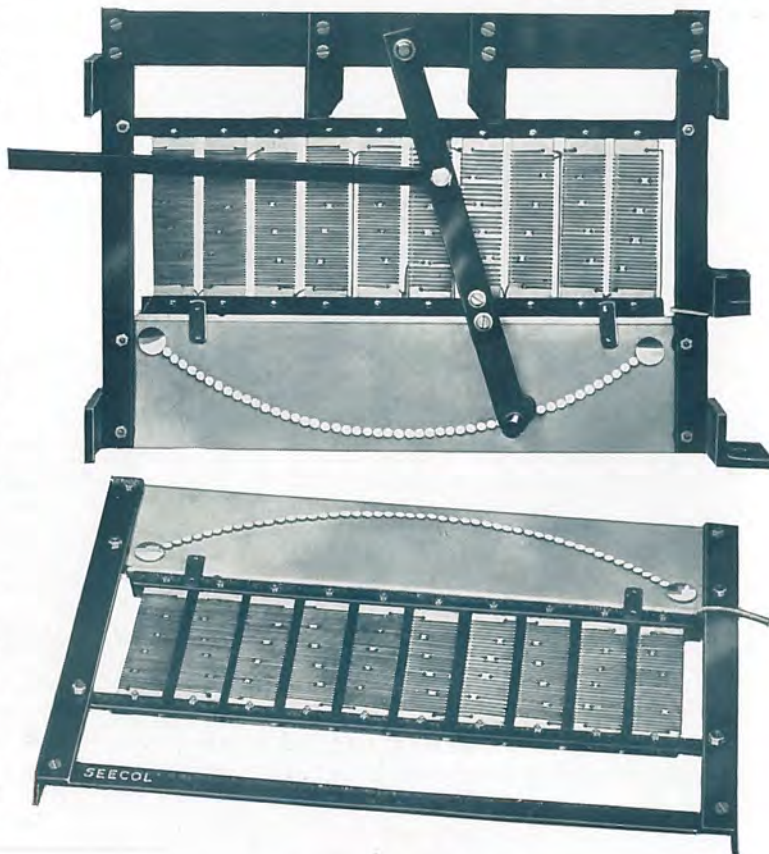
TERMINALS AND STUDS.—Brass studs throughout of ample size, fitted with special collets for connecting elements.

ELEMENTS.—Natural grade "Sindanyo" wound with best quality nickel-copper alloy wire. Wire is non-corrosive, and is unaffected by atmospheric conditions, and also has a negligible temperature coefficient.

BRUSH.—Anti-friction carbon of ample section to carry current required without voltage drop.

INSULATION.—Panels, Elements, Brush, and other live parts are insulated from frame with bakelite bushings and washers. All insulation is impregnated with bakelite varnish to prevent damp creeping in at these points. The insulation resistance of an individual dimmer is not less than 20 megohms, measured with a 500 volt testing set.

GENERAL.—All dimmers have a definite "off" position. Dimmers are made with 80 or 100 steps of resistance, and windings are graded to give flickerless dimming from "full on" to "off" when used with a load of its rated capacity. Dimmers for dip plugs can be arranged to give a load variation of + or — $33\frac{1}{3}$ per cent.



*Sunset Element Type Dimmer
dismantled showing brush arm and contacts*

Telephone :
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STRAND DIMMERS

"SUNSET" DIMMERS, TYPE D (Coil Pattern)

This is a cheaper form of dimmer than the element type, and is designed for use where price is an important consideration. Though wherever possible use of the element type is recommended, these dimmers are a thoroughly reliable and robust job, equal—if not superior—to any of their type on the market.

FRAME.—Wrought iron, suitably arranged for switchboard mounting, for removal from either back or front of board. Also suitable for banking for motor drive.

PANELS.—Top panels of natural grade "Sindanyo," of ample size to prevent warping. Main panels of best selected slate free from metallic veins.

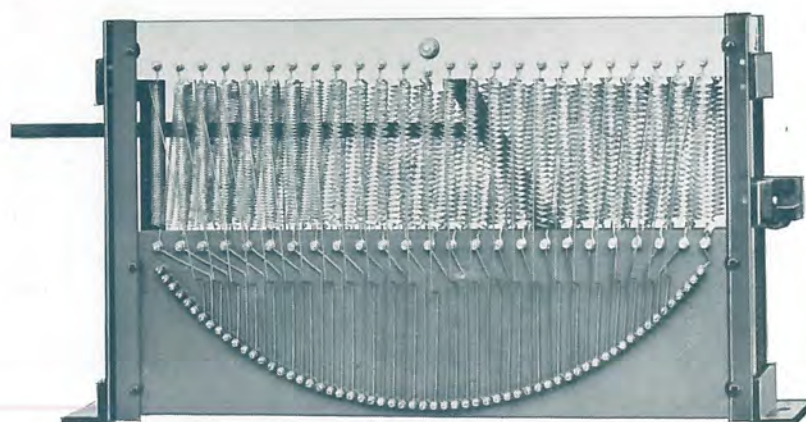
TERMINALS AND STUDS.—Brass studs, screws, etc., used throughout. Studs of ample size, fitted with special collets for connecting coils. Resistance coils are secured with brass screws and nuts, with washers on each side of loop to ensure good contact.

RESISTANCE COILS.—All nickel-copper alloy wire, non-corrosive, unaffected by atmospheric conditions, and with a negligible temperature co-efficient.

BRUSH.—Anti-friction carbon of ample section, to carry current required without voltage drop.

INSULATION.—Panels, coils, brush, and other live parts are insulated from frame with bakelite bushings and washers. All insulation is impregnated with bakelite varnish to prevent damp creeping in at these points. The insulation resistance of an individual dimmer is not less than 20 megohms, measured with a 500 volt testing set.

GENERAL.—All dimmers have a definite "off" position. Dimmers are made with 100 steps of resistance, and windings are graded to give flickerless dimming from "full on" to "off" when used with a load of its rated capacity. Dimmers for dip plugs can be arranged to give a load variation of $\pm$ or $- 33\frac{1}{3}$ per cent.



Sunset Coil Dimmer Complete

Telephone :
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STRAND DIMMERS

WALL MOUNTING "SUNSET" TYPES F, G, H, & J

This is a self-contained dimmer unit suitable for use on decorative lighting in lecture halls, churches, etc., or for master dimming on small stages.

FRAME.—Wrought iron, wall mounting, with perforated iron guard.

PANELS.—Best selected slates free from metallic veins.

TERMINALS AND STUDS.—Brass studs, screws, etc., used throughout. Studs of ample size fitted with special collets for connecting coils. Resistance coils are secured with brass screws and nuts, with washers on each side of loop to ensure good contact.

RESISTANCE COILS.—All nickel-copper alloy wire, non-corrosive, unaffected by atmospheric conditions, and with a negligible temperature co-efficient.

BRUSH.—Anti-friction carbon of ample section to carry current required without voltage drop.

INSULATION.—Panels, coils, brush, and other live parts are insulated from frame with bakelite bushings and washers. All insulation is impregnated with bakelite varnish to prevent damp creeping in at these points. The insulation resistance of an individual dimmer is not less than 20 megohms, measured with a 500 volt testing set.

GENERAL.—All dimmers have a definite "off" position. Type F and G dimmers are made with 70 steps of resistance, and Type H and J with 100 steps of resistance. Windings are graded to give flickerless dimming from "full on" to "off" when used with a load of its rated capacity.



Wall mounting Sunset Dimmer
with guard removed

100/110 VOLTS					200/250 VOLTS				
Watts	70 Contacts		100 Contacts		70 Contacts		100 Contacts		
	Frame	PRICE	Frame	PRICE	Frame	PRICE	Frame	PRICE	
		£ s. d.		£ s. d.		£ s. d.		£ s. d.	
1000	F	8 0 0	G	9 10 0	F	8 0 0	G	9 10 0	
1500	F	8 5 0	G	9 15 0	F	8 2 6	G	9 12 6	
2000	F	8 10 0	G	10 0 0	F	8 5 0	G	9 15 0	
2500	F	9 10 0	G	10 5 0	F	8 7 6	G	9 17 6	
3000	F	9 15 0	G	11 5 0	F	8 10 0	G	10 0 0	
3500	F	10 0 0	G	11 10 0	F	8 12 6	G	10 2 6	
4000	F	10 5 0	G	11 15 0	F	8 15 0	G	10 5 0	
4500	H	14 0 0	G	12 0 0	H	13 5 0	G	10 7 6	
5000	H	14 10 0	G	12 5 0	H	13 7 6	G	10 10 0	
6000	H	15 10 0	J	17 10 0	H	13 12 6	J	16 2 6	
7000	H	16 10 0	J	18 10 0	H	13 17 6	J	16 12 6	
8000	H	17 10 0	J	19 10 0	H	14 2 6	J	17 2 6	
9000	Not Made		J	20 10 0	H	14 7 6	J	17 12 6	
10000	,,		J	21 10 0	H	14 12 6	J	18 2 6	

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STRAND DIMMERS

LIQUID DIMMERS (Useful for special dips and other widely varying loads)



Glazed earthenware jars, complete with fixed and moving lead cones. Provided with insulators to which the tracker wire is attached, and terminals for leads.

	£	s.	d.	
PRICE (for loads up to 40 amps.) as illustration	3	7	6	each
Ditto, complete, mounted in framework with operating handle at top	6	10	0	„
Special "salts" for use in dimmer	0	2	6	per lb.
Tracker wire, $\frac{1}{16}$ in. diameter	0	15	0	per 100 ft.

REACTANCE DIMMERS

The much talked of installations of dimmers in the U.S.A., operating on reactance principles, and employing voltage control in the form of a variable choke or thyatron valve, has led to much discussion in this country.

Strand Electric engineers have examined the various types available here, and have discussed the matter with their representatives in New York. They have come to the conclusion that at present the initial cost of this form of dimming and the subsequent maintenance is far too heavy to justify general installation.

However, Strand Electric can supply a unit for use on dip circuits or with flexible plugging boards, where one dimmer may have to suffice for several circuits of different wattages.

Meanwhile, experiments are being carried out from which Strand Electric confidently expect great results, although it will be several years yet before the wire dimmer is relegated to the position now occupied by the liquid dimmer.

PRICES ON APPLICATION

Telephone :
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STRAND CONTROL

PORTABLE TEAK DIMMER BOARD

Wired complete with 15 ampere Home Office pattern fuses, wood protecting cover. Bus bars with large main terminals and dividing fillet. 15 ampere quick break tumbler switches. 15 ampere flush two-pin sockets. Up to twelve universal voltage dimmers of any wattage from 100 to 1000. Pilot light switch and fuse. All internal wiring covered in with sheet metal back.

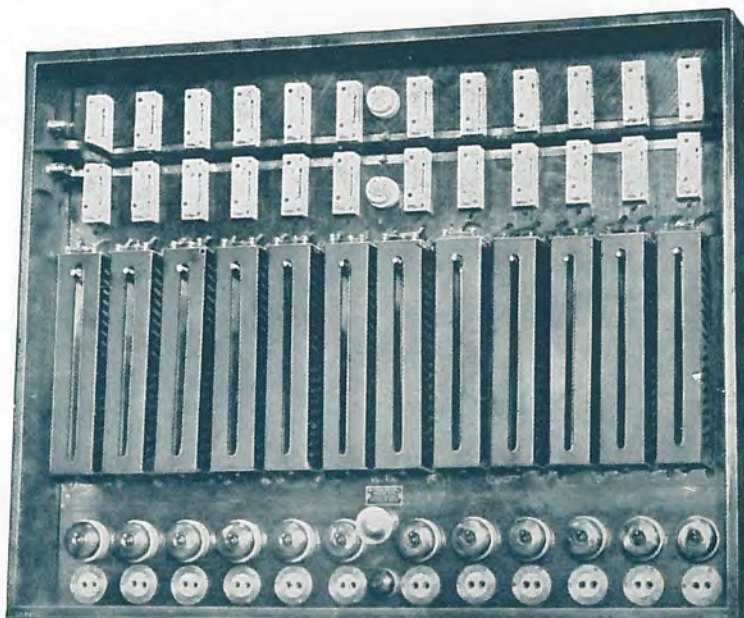
PRICE (6-way, 1000 watt) £ s. d.
... ... 24 0 0 Nett

Size : 3 ft. 3 in. 3 ft. 3 in. 9 in.
Nett weight, 1½ cwt. (approx.).

PRICE (12-way, 1000 watt) £ s. d.
... ... 48 0 0 Nett

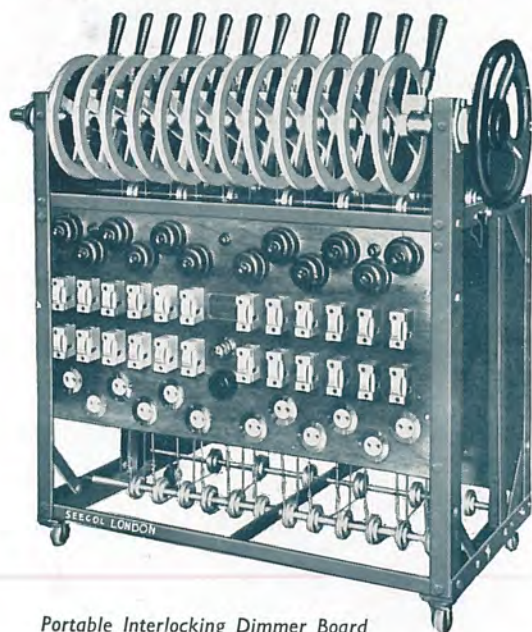
Size : 6 ft. 6 in. 3 ft. 3 in. 9 in.
Nett weight, 3 cwt. (approx.).

Prices for other sizes and wattages on application



PORTABLE INTERLOCKING DIMMER BOARD

Designed to include the advantages of individual and collective control on a portable board, while keeping the weight down to a minimum.



Portable Interlocking Dimmer Board

SPECIFICATION

Light angle iron frame, mounted on castors. Complete with 15 ampere Home Office pattern "Slidelock" fuses. 15 ampere quick break bakelite switches. 15 ampere flush two-pin plug sockets. Universal voltage, 1000 watt slider dimmers, operated by tracker wires from levers mounted on top of switch panels. Levers can be screwed down to shaft for master operation by wheel at the end of the shaft. Lever travel fitted with scale showing position of check. Pilot light. Interconnection in rock-bestos. Heavy pattern quick connection terminals for mains.

PRICE (6-way, 1000 watt) £ s. d.
... ... 38 0 0 Nett

Size : 2 ft. 5 in. 2 ft. 6 in. 3 ft. 10 in.

Nett weight, 2 cwts.

PRICE (12-way, 1000 watt) £ s. d.
... ... 60 0 0 Nett

Size : 3 ft. 6½ in. 2 ft. 6 in. 3ft. 10 in.

Nett weight, 3 cwts.

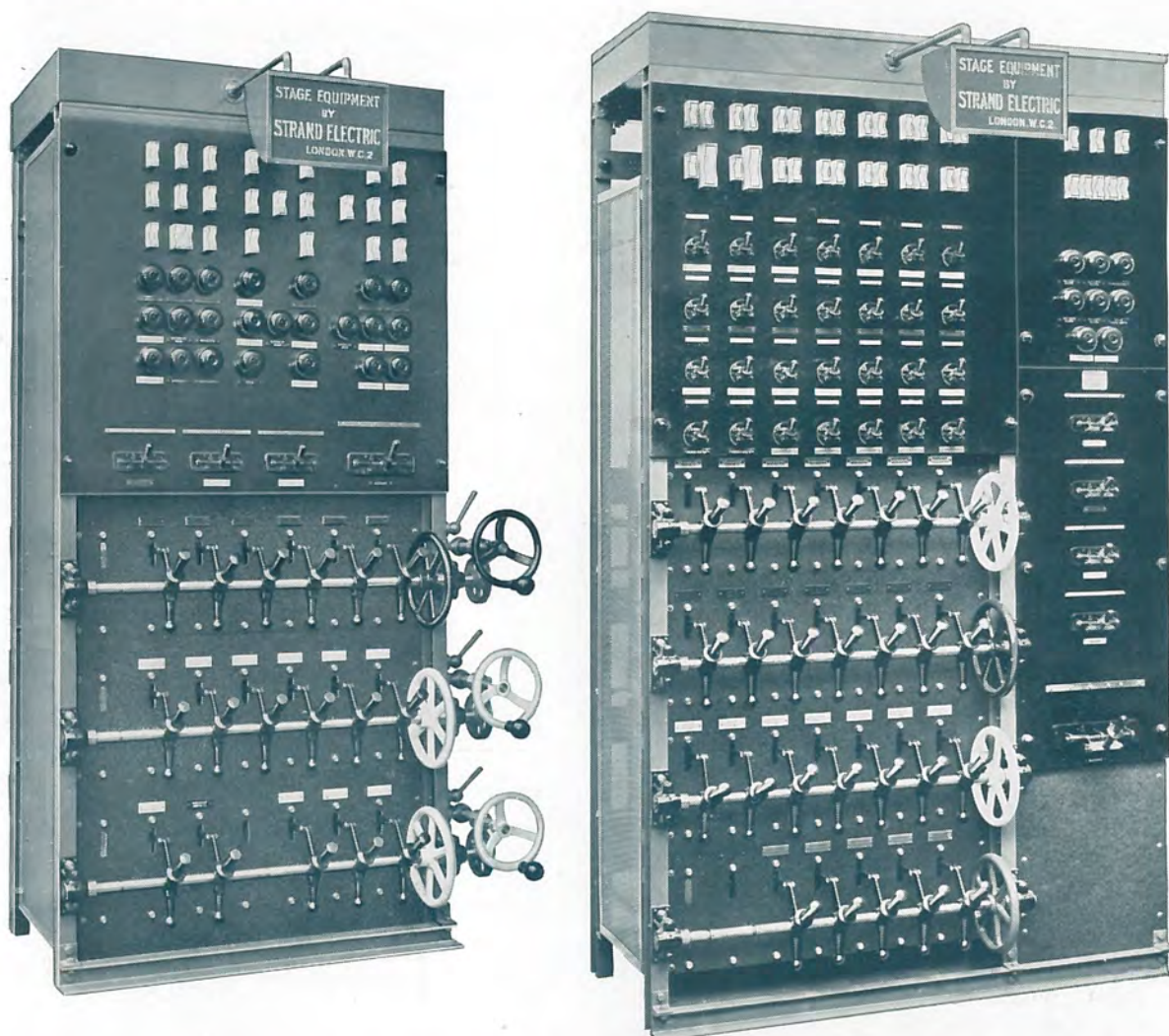
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STRAND CONTROL

COMBINED SWITCH and DIMMER BOARDS



The above are two types of dead-front switch and dimmer boards. The one on the left is a 3-colour board, with 15 ampere tumbler switches, back of board colour master switches, bracket type dimmer handles, quick motion master wheels, and slow motion worm drive.

That on the right is a 4-colour board, with 30 ampere back of board type knife switches, back of board colour masters, master blackout switches, bracket type dimmer handles, quick motion master wheels.

Similar boards have been installed in—

Westminster Theatre
A.D.C., Cambridge
Pavilion, Maidstone
Regal, Margate
R.M.S. "Queen Mary"
Winter Gardens, Llandudno
Holborn Empire

Arts Theatre, Cambridge
Regal, Wimbledon
Regal, Rotherham
Festival Theatre, Edinburgh
Cork City Hall
&c., &c.

Telephone :
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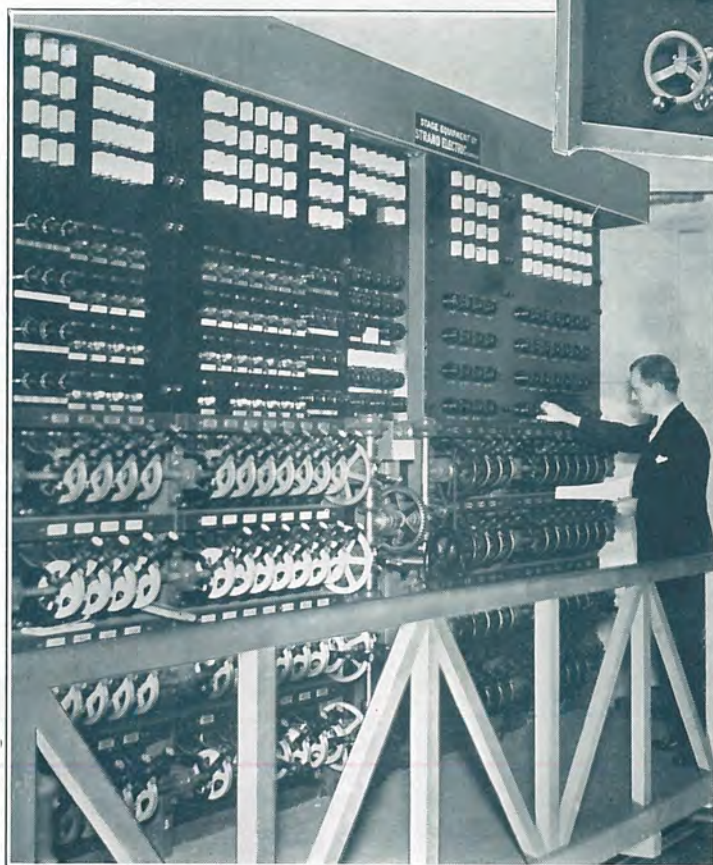
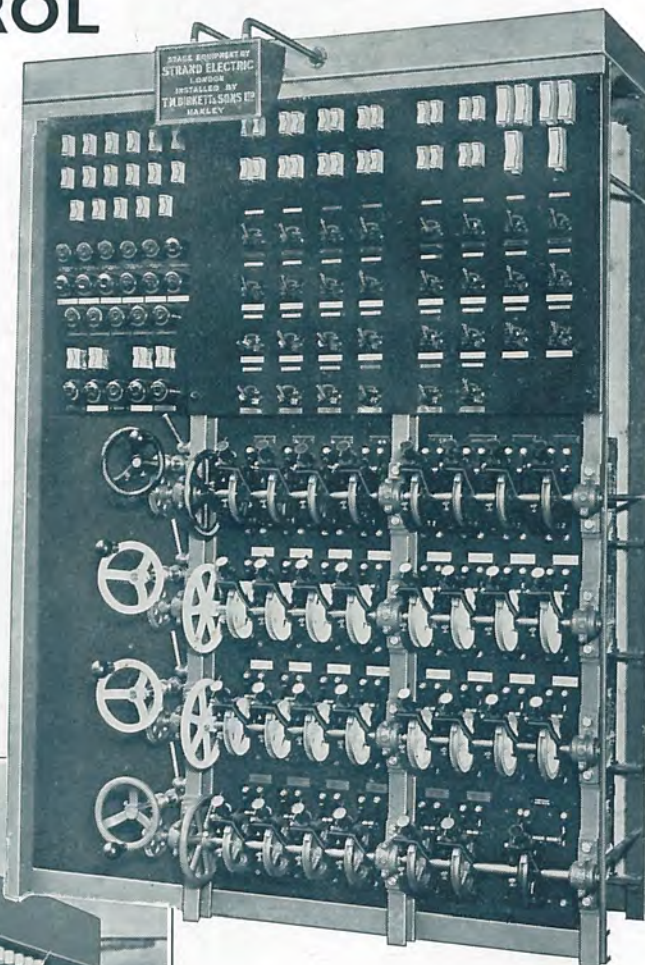
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STRAND CONTROL

COMBINED SWITCH and DIMMER BOARDS

On the right is shown a four-colour switch-board with back of board switches, remote colour master and master blackouts, self-releasing handles with quick and slow motion master wheels. As installed in Savoy, Globe, and Queens Theatres, London, and innumerable theatres and cinemas all over the country.

Below is the board installed in the St. James' Theatre, and represents, at the time of going to press, the latest Strand Electric practice.



Grand Master Board Installed in St. James' Theatre, London

GRAND MASTER CROSS CONTROL BOARD

Remote control for colour and independent masters, switching for mastering groups of blackouts, switching to render any or all spots and special circuits independent of the master blackout, etc. Self-release handles with grand master cross control. Constant mesh action provides easy and silent connection of shafts to master wheel. Illuminated scales showing position of check, etc.

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AND ENGINEERING CO., LTD.**

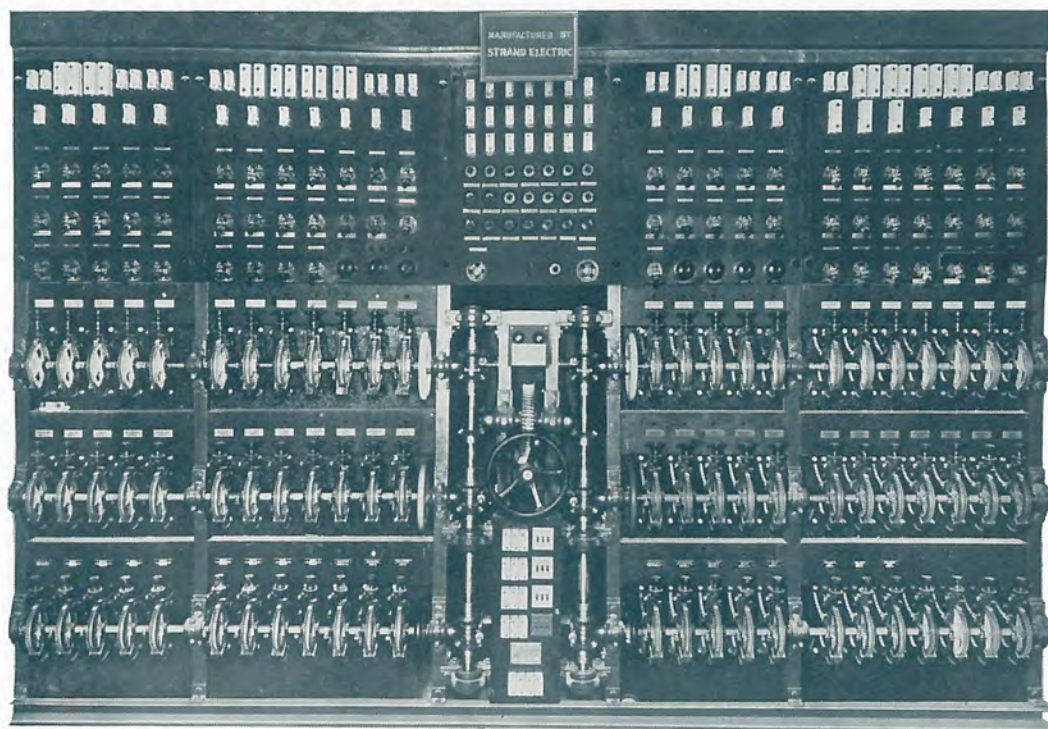
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FLORAL STREET, COVENT GARDEN, W.C.2

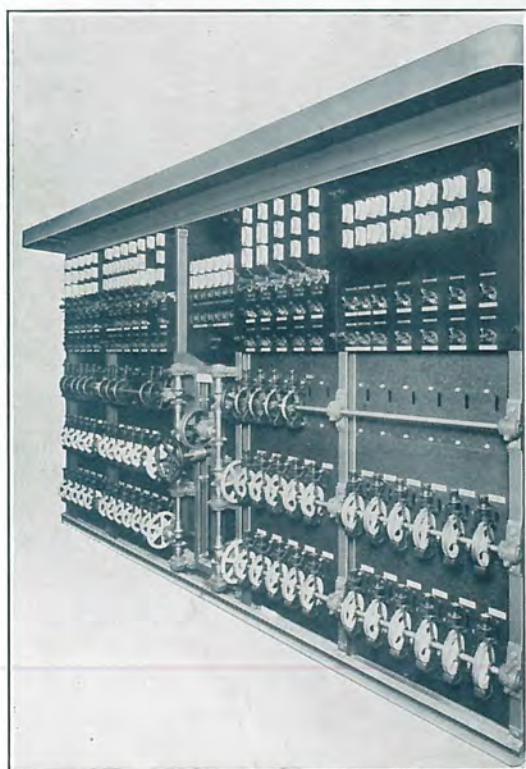
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STRAND CONTROL

GRAND MASTER CROSS CONTROL BOARDS



*Grand Master Switchboard, installed in the Regal Cinema,
Edmonton, London*



Grand Master Switchboard, installed in New Theatre, Oxford

Grand Master Boards, with self-releasing handles, as illustrated on this page, have been installed in theatres at home and abroad, including :—

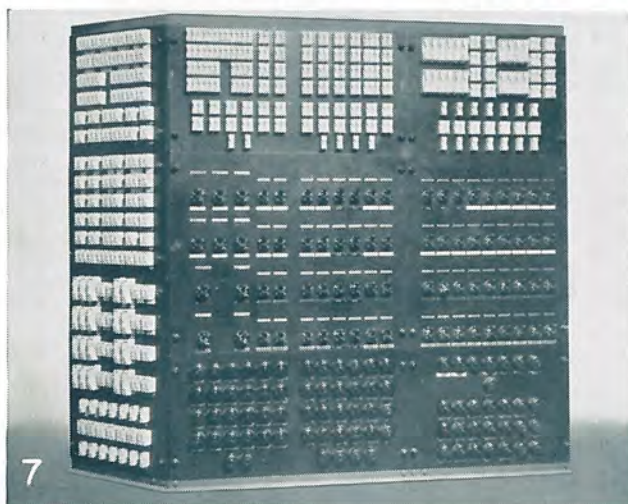
Palace Theatre, London
 Wyndhams Theatre, London
 St. James' Theatre, London
 New Theatre, Oxford
 Princes Theatre, Bristol
 Shakespeare Memorial Theatre, Stratford-on-Avon
 Royal Theatre, Newcastle
 Gaumont Palace, Lewisham
 Gaumont Palace, Wood Green
 Gaumont Palace, Chelsea
 Granada Cinema, Tooting
 Rex, Turin, Italy
 Alhambra, Paris
 Theatre Royal, Dublin
 &c., &c.

Telephone :
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STRAND REMOTE CONTROL



Covent Garden Switchboard

the panel. The dimmer ways are each controlled by a 2-way-and-off switch, the up position connecting the "up" clutch to the shaft, the down position the "down" clutch. Thus, some dimmers may be raised, others lowered, while others remain stationary, all on operation of one wheel. The dimmer position is indicated on an illuminated dial over each switch. These dials operate independently of the master blackouts. The action voltage is 12 volts, D.C.

MAGNETIC CLUTCHES (PATENT No. 373,625) WITH MANUAL DRIVE

On the left is shown the switchboard and below the remote dimmer control installed at the Royal Opera House, Covent Garden. The latter constitutes, at the time of going to press, Europe's largest electric remote dimmer control, controlling no less than 150 dimmer ways, many of which are made up of two or three dimmer plates. The drive is mechanical from the slow or quick motion wheels shown under



Covent Garden Opera House Dimmer Control



Covent Garden Opera House Dimmer Bank

The switchboard (above left) gives switching control of each circuit, together with master blackouts in colour and other groups. All spotlights, dips, etc., may be switched independent of the masters. On the left is shown the remote dimmer bank, 48 ft. long, as assembled in the Strand Electric Works for test. The whole of this equipment was designed and installed in seven weeks.

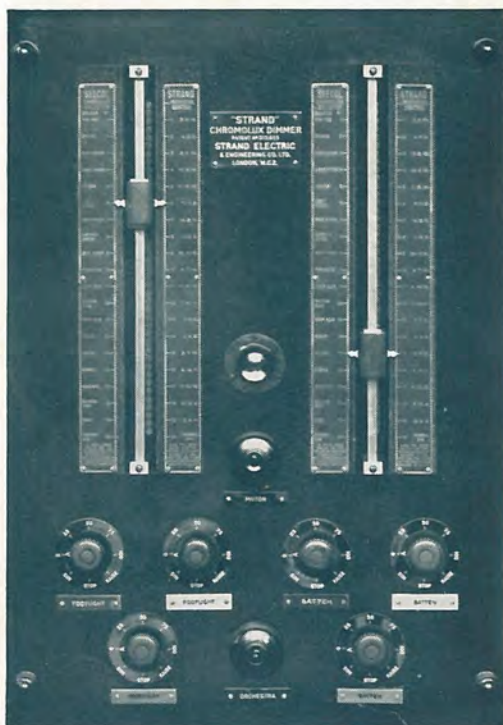
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STRAND REMOTE CONTROL

THE STRAND "CHROMOLUX" (UTILIZING THE STRAND PATENT MAGNETIC CLUTCH)



Chromolux Control, Metropole, Dublin

The Strand "Chromolux," which is the latest development of the magnetic dimmer control, has been devised to ensure satisfactory repetition of effects by inexperienced operators.

Many visitors to the Strand Electric Demonstration Theatre have been enchanted by the exceedingly beautiful effects that can be obtained by colour lighting on drapery, but have frequently stated that the operator is an artist, and that it would be difficult to obtain such results without considerable skill in manipulation. In order to meet this point, which is a very sound one, Strand artists and engineers have combined forces and produced a piece of equipment that a child can operate satisfactorily without any difficulty whatever.

In its simple form the apparatus consists of dimmers which control lighting in the three primary colours with a motor drive and a colour selector switch. To obtain an effect the colour switch for, say, the footlight, which has numerous plainly marked positions, is adjusted to coincide with the colour required, when the dimmers will change the light accordingly. The connections are of such an ingenious nature that the operator has no occasion to know the position of the dimmers when an alteration is desired. In changing from, say, red to mauve, some dimmers may increase and others decrease the light in their respective circuits, whereas when changing to mauve from some other colour the dimmers may move in an entirely different way. This can be

ignored, for if the switch is put on mauve the colour will be obtained without any further fuss or bother. There is no question of a colour cycle, the dimmers always moving direct to the desired position. As the finest effects are obtained by contrasts, it is recommended that two or three selector switches be provided. This enables the folds in the drapery to be illuminated with different colours, and in order to obtain this effect without the danger of unpleasant contrasts, each selector switch is marked in its various positions with a number or numbers indicating the best positions for the other switches. From this it will be observed that nothing is left to chance. The equipment has been developed so that if the very simple instructions are followed, the effects obtained by the most expert lighting artists can be repeated with absolute certainty.

There are naturally many modifications of the apparatus to make it suitable for the above purposes, and also for general work. In fact, at the moment the extent of its utility becomes more apparent the more it is considered.

The apparatus should preferably be remote controlled; a considerable saving can be effected in this event, as the dimmers can be placed on the stage and the apparatus operated from the operating box by low voltage telephone connections between the two points.

Further details will be given and schemes worked out to the individual requirements of anyone interested.

Demonstrations on the full-size working model in the Strand Electric Theatre can be given by appointment.

Telephone :
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2**

Telegraphic Address :
Spotlite, Rand, London.

STRAND REMOTE CONTROL

THE "CHROMOLUX" COLOUR SELECTOR

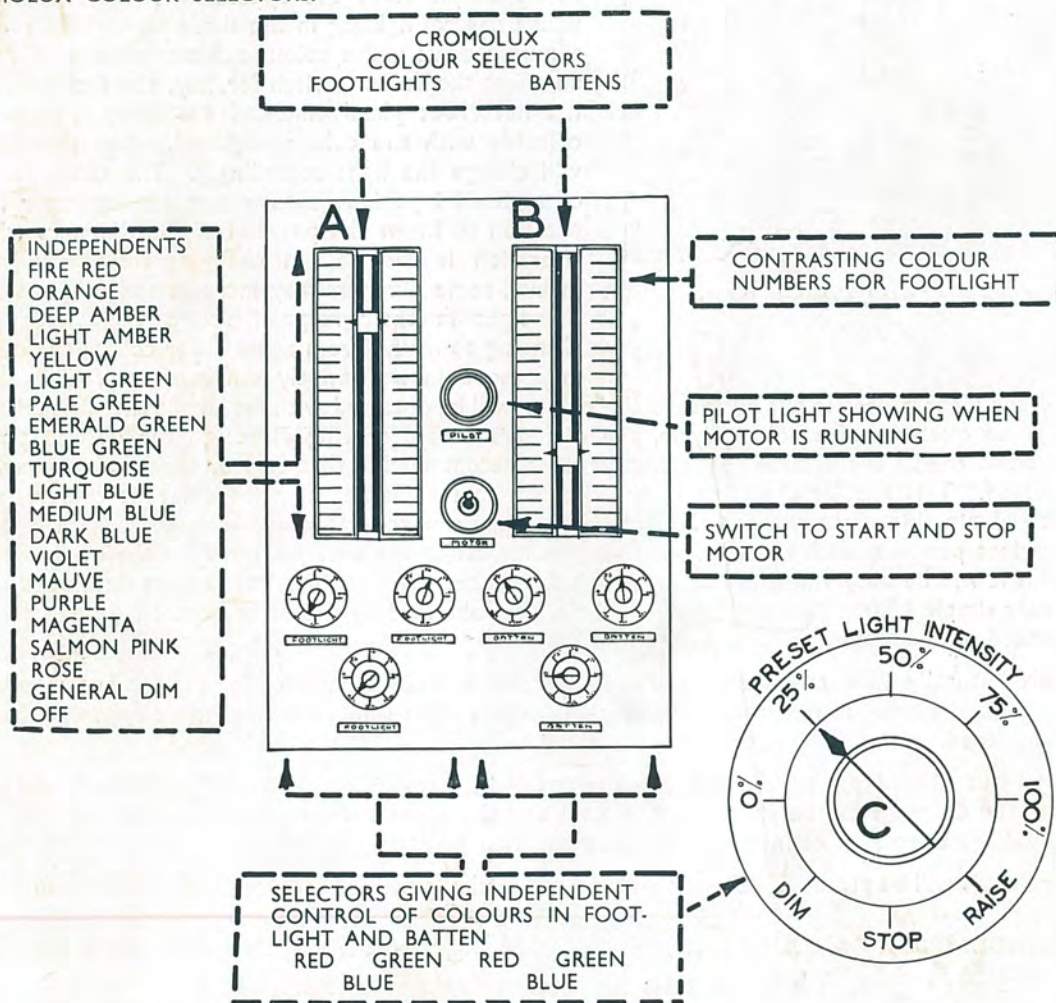
COLOUR SELECTION.—Once the motor is switched on, the footlight selector pointer (A), for instance, may be placed opposite any colour enumerated on the left of the pointer. Immediately the three footlight dimmers (Red, Blue, and Green) move to the correct pre-set intensity positions to give that colour.

CONTRAST.—On the right-hand side of the pointer will be found three colour numbers, giving the correct contrasting colour for the batten. The batten selector pointer (B) may be moved to any of these with a certainty of obtaining the best possible contrasting colours. Further movement of either the batten or footlight selectors will drive the dimmers by the most direct route to positions for further colours.

POSITIVE ACTION.—The Chromolux dimmers are operated by the Strand Patent Magnetic Clutch. This device is absolutely free of momentum, giving accuracy of dimmer movement and resulting colour, impossible where separate motors are used.

INDEPENDENT CONTROL.—When the selector pointers are placed in the "independent" positions, the colours (Red, Blue, and Green) in the footlight and batten may be mixed at will by means of the knobs (C). These controls are of great use for carrying out the simple lighting plots of variety acts.

IT IS NOT NECESSARY WHEN COLOUR MIXING TO TOUCH ANY CONTROLS OTHER THAN THE TWO CHROMOLUX COLOUR SELECTORS.

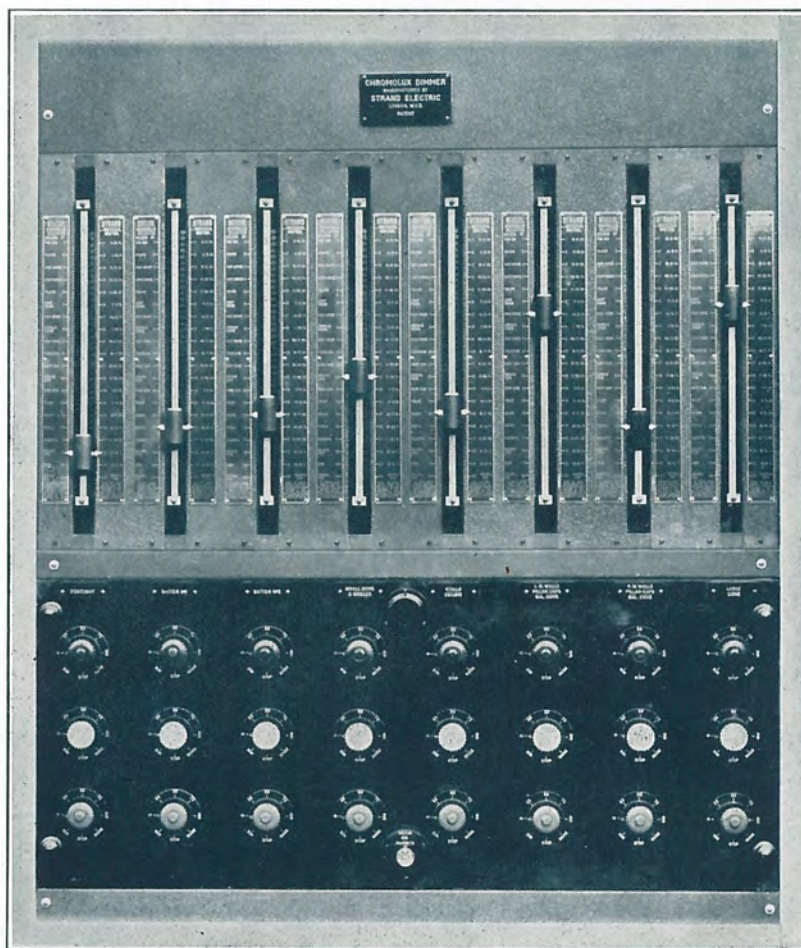


Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND REMOTE CONTROL



"STRAND CHROMOLUX" INSTALLED IN "GREENS PLAYHOUSE," DUNDEE

This panel, 3 ft. 5 in. x 3 ft. 3 in., controls the three colours in :—

Footlight.

No. 1 Batten.

No. 2 Batten.

} Stage Lighting.

Small Dome and Grilles.

Stalls Ceiling.

L.H. Walls and Balcony Cove.

R.H. Walls and Balcony Cove.

Large Dome.

} Auditorium Colour Lighting.

The top panel gives pre-set colour effects at the hands of an unskilled operator.

The lower dark panel gives independent control for the skilled operator.

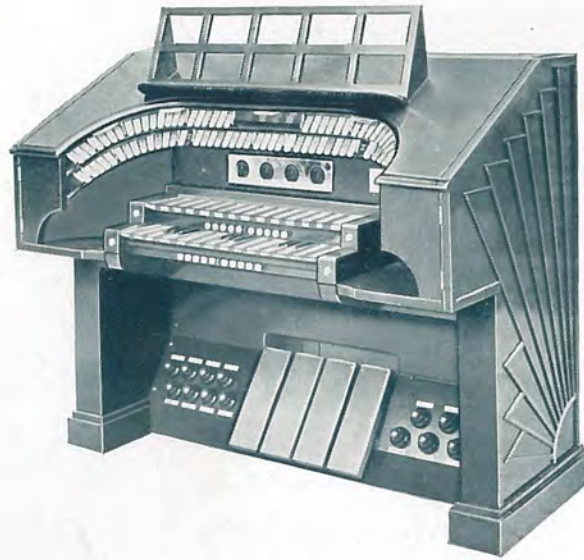
Telephone :
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STRAND ELECTRIC
AND ENGINEERING CO., LTD.

FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND LIGHT CONSOLE



70-way Light Console

On June 13th, 1935, Strand Electric introduced for the first time the "Light Console," the perfect stage switchboard on which their resources have been concentrated.

Three years previous the Directors had decided that Strand Electric must be in a position to supply a lighting control that would fulfil literally every theatre and cinema requirement.

To this end a close study was made of existing controls in this country, on the Continent and in America. A schedule was made of all their outstanding features ; to this schedule, was added every humanly conceivable requirement of the future, including those of the new art of colour music.

It was found that a control to carry out the items on the schedule would have to make an absolute break away from present practice, and it was from the one-man orchestra, the "Cinema Organ," that inspiration was derived.

The Strand Electric claims perfection of control beyond the wildest dreams of the producer's brain, and asks you not just to believe their own claims, but to come and test them for yourself at the Console, in the seclusion of their private theatre.

Right from the start perfection has been sought regardless of expense, with the result that the Light Console joins the Cinema Organ in this respect. However, if the cinema or theatre installation is complete enough, it will be found that the publicity, artistic and showmanship value, quite apart from the labour and time saved at rehearsals, will amply repay the initial high cost of installation of this, the Rolls-Royce of switchboards.

Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND LIGHT CONSOLE



LIGHT CONTROL AT THE FINGER TIPS

THE MOST COMPACT SWITCH AND
DIMMER BOARD IN THE WORLD

Write for 12-page descriptive brochure

Demonstrations in the Strand Electric theatre by appointment

Telephone :
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2**

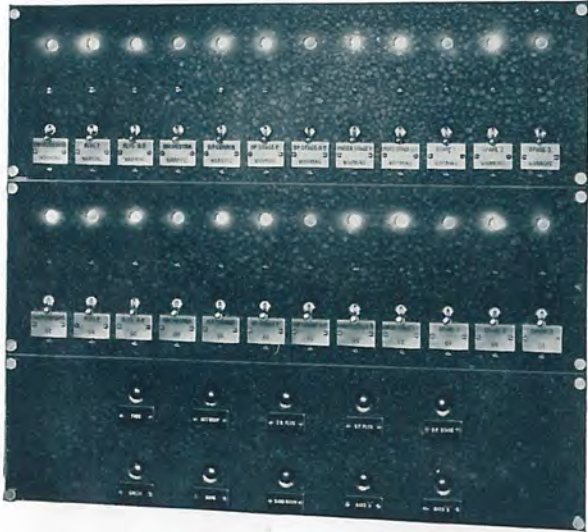
Telegraphic Address :
Spotlite, Rand, London.

STRAND CONTROL

SIGNAL BOARDS

Quite apart from the actual control of the lighting installation, another but equally important form of control is required, if the show is to run smoothly.

To enable the Stage Manager to give his all important cues, a really reliable and compact signal board must be installed in the prompt corner. Such a signal board is the Strand. Made up of sheet steel, it consists of two 2-way switches and two lamps mounted behind red and green glasses per station.



Cue Board at Palace Theatre, London.

The operation procedure is as follows :—

To warn, say, orchestra, the "Warning" switch is used. This lights a red lamp in the orchestra pit and one in series on the signal board. These are then switched out by the conductor's two way switch to show that he has received the signal.

The same procedure is adopted for "Go."

The signal boards are fitted with silent switches, clearly labelled, and are finished black crystalline enamel. They are well ventilated, and easy access is provided for wiring. They are generally supplied for wall mounting.

Pushes to each station operating on buzzers are sometimes fitted. These serve to draw attention to the signal lamps during rehearsals, when attention may be flagging.

Single way switch working will be supplied if preferred.

Prices on application, on receipt of requirements.

ARC CONTROL PANELS

Modern projector room practice has abolished the old arc switch-board and its associate series type resistance regulators. Arc control is generally effected from a switch on the wall behind the machine, and regulating resistances are of the parallel type, housed in an adjacent room. The resistance steps are brought in from a small control panel mounted under the projection port for the particular machine. Increase of arc current is brought about by paralleling more sections of resistance, a very logical method.

Strand arc panels incorporate 15 ampere quick break switches of the correct number to give the desired steps. (These are of such a type that they cannot get knocked on or off accidentally.) An ammeter and voltmeter with fuses and switch. (These instruments are tilted for easy reading.)

Push buttons for curtain controls, automatic dimmer, magnascope screen, and signal lights can be incorporated, giving complete control from one position.

Finished black crystalline or white enamel, with nickel-plated fittings. Arranged for surface or flush mounting, as desired.



Strand also manufacture panels for contactor operated resistances.

Prices and specification will be forwarded on receipt of requirements.

Telephone :
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC
AND ENGINEERING CO., LTD.**
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND AUDITORIUM COLOUR LIGHTING

This branch of theatrical lighting has been extensively developed by Strand Electric experts.

Among their contracts is the Regal, Kingston, where colour lighting throughout the auditorium adds the charm of moving colour harmonies to Mr. Robert Cromies' delightful decorative scheme. The lighting is controlled by an automatic dimmer which fades up on depressing a button into a cycle of colour change which continues to change until the dim button is used, whereupon the lighting fades through the blues into darkness.

In the Winter Gardens, Llandudno, the whole of the auditorium features are illuminated by STRAND magazine troughing in three colours. Each type has been specially designed for the particular job for which it is used. The main ceiling cove is 70 ft. across and is illuminated by 40 watt lamps at 9 in. centres, with double wattage to the blue. Special care has been taken in all types of magazine troughing to ensure even mixing without spottiness when used at short range.

There is considerable diversity of opinion among architects as to the advisability of putting coloured lighting in the whole auditorium, it being considered that the audiences' attention ought to be directed at the proscenium end of the theatre. In this event, a proscenium arch illuminated in three colours is probably the most effective feature.

In the Regal, Edmonton, there are three proscenium coves, one inside the other ; the largest of these is 90 ft. across. They are illuminated from Strand magazine troughing in four colours—Red, Blue, Green, and White—thus giving an infinite variety of colour harmonies at a position where they may be most easily viewed by the audience.

Other very effective installations have been carried out in Greens Playhouses at Glasgow and Ayr also for the Torquay Electricity Supply Corporation New Showroom and Demonstration Theatre.

Strand auditorium lighting can be controlled from any of the dimmer boards illustrated on pages 77-80. However, the Chromolux or automatic dimmers give the best results. Automatic dimmers can be designed to give any type of cycle to conform with the clients' ideas and requirements.



Proscenium Arch, Regal Cinema, Edmonton

Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND AUDITORIUM COLOUR LIGHTING

MAGAZINE CORNICE LIGHTING

This method is vastly superior to the standard troughing with coloured lamps, where coloured lighting in the theatre or cinema auditorium is used. The resulting colour mixing is far more satisfactory, all colours being much purer and therefore more exciting.

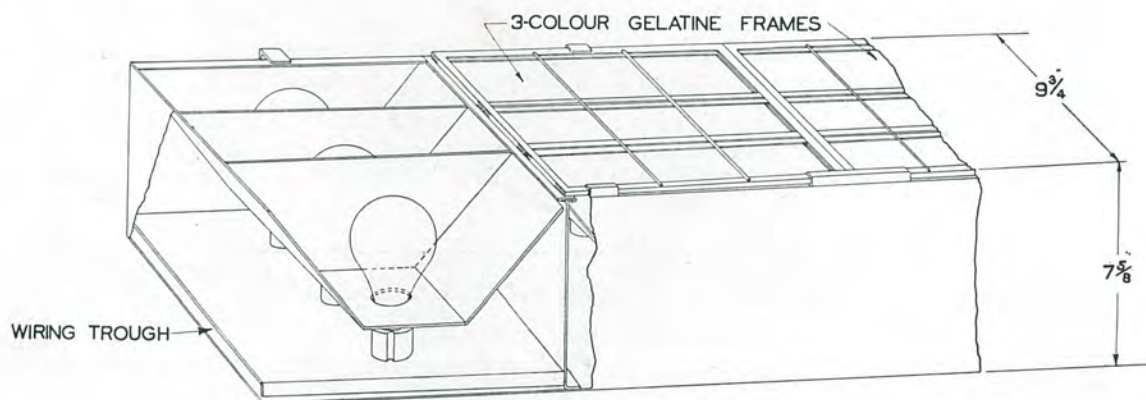
SPECIFICATION

Constructed of lead-coated sheet steel, with three- or four-colour compartments per foot. Colour compartments run parallel to each other and are fitted with white enamel reflector, B.C. or E.S. holder, and easily removable colour frames and gelatine.

PRICE (per foot run, wired 3-colour)	26/-	} Net weight per 6 ft. section, 6½ lbs.
(per foot run, wired 4-colour)	30/-	

Lamps : 25, 40, or 60 watt General Service.

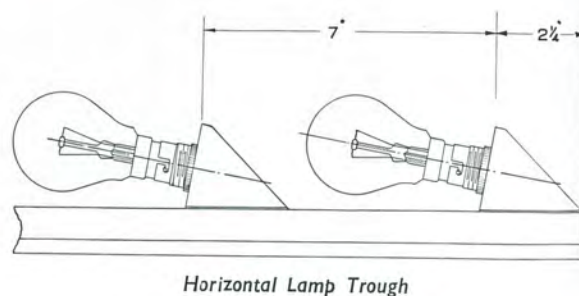
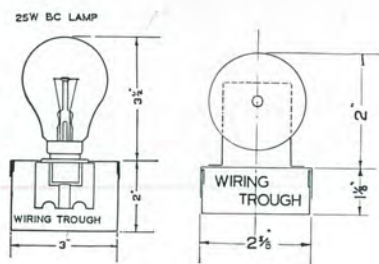
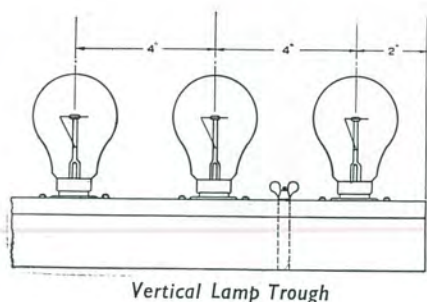
Prices for other types of Magazine Troughing, for special situations, on application.



LAMP TROUGHING

Illustrated below are the two types of standard troughing. These are constructed of lead-coated sheet steel, finished white enamel. Lampholders are fitted at any centres required, and are wired in the circuits to suit customers' requirements.

Prices on application



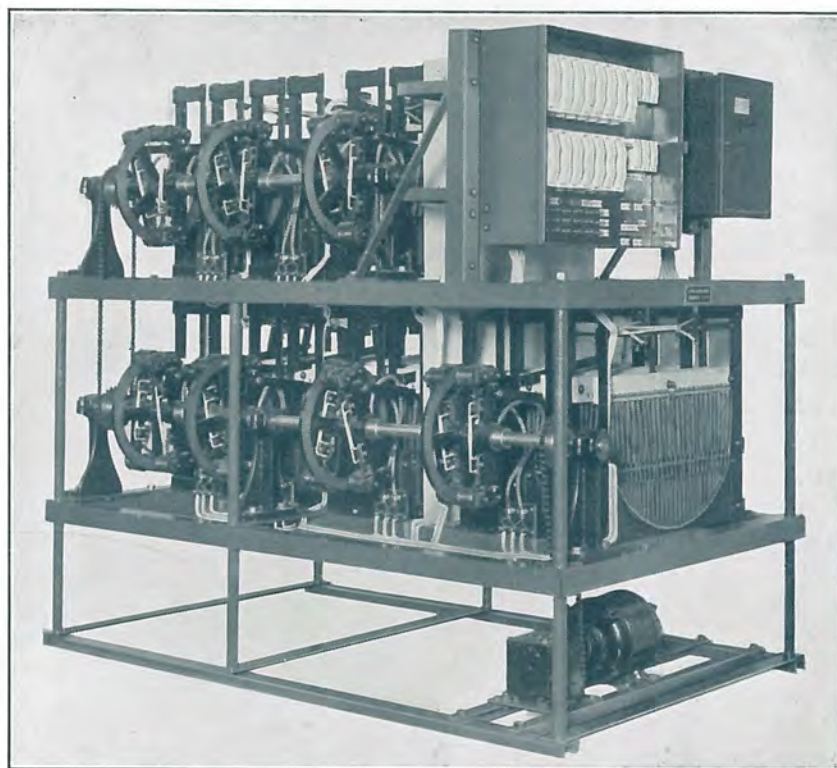
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AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
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STRAND AUTOMATIC DIMMERS

Strand Electric can devise automatic or semi-automatic dimmers to meet any type of job conceivable. Automatic cycles with an alternative of hand operation, or variable automatic cycles can be provided. There is the "wave" dimmer as used in the auditorium of the Shakespeare Memorial Theatre. Here, on pressing the "dim" push, the lighting fades out, beginning at the rear of the auditorium, with the proscenium end last to be extinguished, thus drawing the attention of the audience to the stage. Another instance, that of an equipment for a London ballroom, may be quoted. In this case, as in the "wave" dimmer, the Strand patent magnetic clutch is employed. Normally, the colour lighting in the various decorative coves is operable by means of 2-way-and-off switches (raise, lower, and stop). When, however, the ballroom is let or an experienced operator is not available, depression of one switch cuts out the individual control and brings in an automatic cycle. A further refinement, in the shape of a pointer, which can be set to Waltz, Quick Step, Slow Fox Trot, and Tango, gives a cycle which is particularly suited to the dance in question. For instance, the Waltz cycle consists of Dark Blue, Moonlight, and Mauve; while for the Tango; Orange, Red, Magenta, and so on. A further 2-way switch gives control of the normal decorative white lighting. The whole dimmer is driven by one motor.



Photograph of Strand Automatic Dimmer showing Patent magnetic Clutch

To sum up, with the aid of the magnetic clutch and other Strand inventions, such as their one-dimmer colour mixing drum unit, there is no limit to what may be achieved in automatic work. At the same time, the price of a Strand Electric automatic dimmer is as low as is compatible with efficiency and reliability.

Automatic dimmer enquiries should be addressed to Research Department.

Telephone : Temple Bar 7464 (6 lines).	STRAND ELECTRIC AND ENGINEERING CO., LTD. FLORAL STREET, COVENT GARDEN, W.C.2	Telegraphic Address : Spotlite, Rand, London.
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STRAND OUTDOOR FLOODLIGHTING

At the present day when the floodlighting of buildings, both ancient and modern, is particularly to the fore, the need for care in the design of an installation cannot be too strongly stressed. Floodlighting, that is just night illumination, is no longer a novelty, and it is only by artistic use of this medium that a building can be lifted from the common rut and brought before the public eye.

Strand Electric brings a new outlook on this very real problem, the outlook of the stage lighting engineer—a man to whom lighting is not merely a question of illumination, but of light and shade, a man to whom colour and artistic expression in light are no strangers. A glance at some of the unusual installations undertaken by the Strand Electric will bear witness to their ability to make a floodlighting installation live.

First and foremost comes the Open Air Theatre, Regents Park, the best known outdoor theatre in the British Isles. Here the fascinating lighting, not only of the acting area but of the trees and shrubbery that provide the setting, receives fresh eulogies in the national press with the advent of each new production.

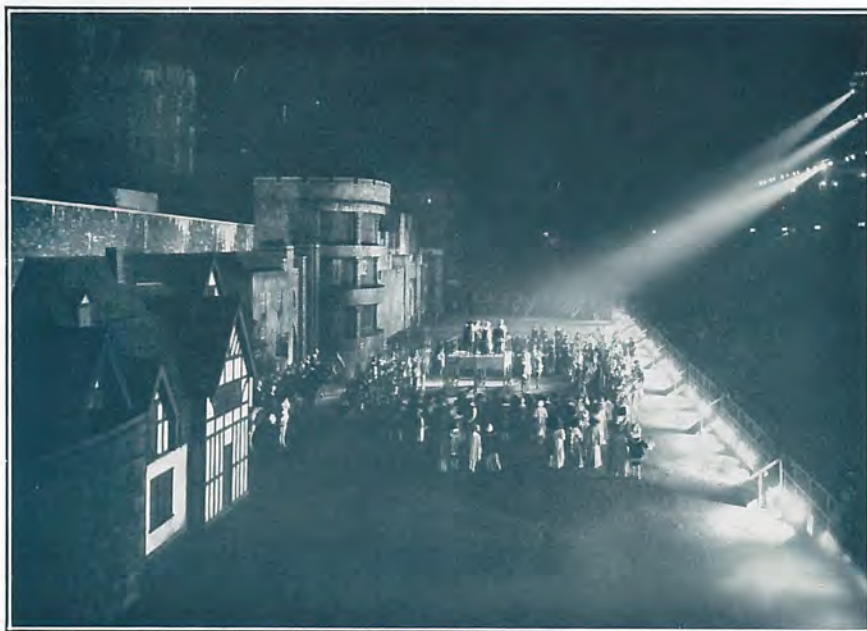
Then the Tower Pageant and Tattoo, where an installation of floods and spotlights on colour circuits gave to an outdoor pageant, staged in an arena 400 yards long, all the facilities of a complete stage equipment.

To come to the floodlighting of buildings, it has been Strand Electric's pleasure to light the spires of two of the best known churches in the country—St. Martins-in-the-Fields, of broadcast fame, and Salisbury Cathedral, with England's highest spire. Fuller details of the latter installation, which is noteworthy for the small number of flood units used, are given on page 95.

In the entertainment world the installations are too numerous to mention but, in passing, the Jubilee floodlighting of The Trocadero Restaurant, The Ritz, Grosvenor House, and Frascati's are worthy of notice.

New outlets for outdoor floodlighting are constantly appearing, such as swimming pools, gardens, pleasure grounds, and many are the novel ideas that can be exploited.

The advice of the Engineers' Department is at the disposal of all interested.



Tower of London Pageant and Tattoo

Telephone :
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC
AND ENGINEERING CO., LTD.**

Telegraphic Address :
Spotlite, Rand, London.

FLORAL STREET, COVENT GARDEN, W.C.2

STRAND OUTDOOR FLOODS

PATTERN 38 500 Watt "GENERAL" FLOOD



This lantern gives a *wide angle* beam of light, suitable for use at close range for illuminating posters, small buildings, and other general work.

SPECIFICATION

Lantern constructed in copper, with spun body, efficiently ventilated. Hinged front door carrying domed heat resisting glass and frame for either glass or "Chromoid" colour medium. Three-piece Type 38 silvered glass "SUNRAY" reflector. Tilting cradle and heavy cast base, 3 in. diameter locking wheels. Finish : service grey enamel outside, matt black inside.

PRICE (exclusive of Lamp) ... £6 0 0

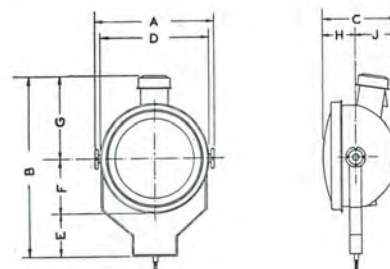
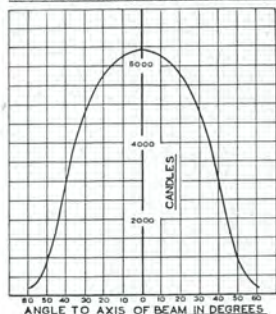
J 213 "Chromoid" colour mediums (cut to size) ... 3s. 0d. each

J 214 Coloured glass strips ... 5s. 6d. per set

Lamp : 500 watt Angle Burning General Service G.E.S. Cap.

Beam Angle 100°. Cut Off Angle 110°

SUNRAY 3 PIECE REFLECTOR
WITH 500W ANGLE BURNING GENERAL PURPOSE LAMP
PATT 37 WING FLOOD & 38 OUTDOOR FLOOD



DIMENSIONS. PATTERN 38.		Ft. in.		Ft. in.		Ft. in.	
A ...	I	3 1/2	D ...	I	1 1/2	G ...	10
B ...	I	10	E ...	5 1/2	H ...	3 1/2	
C ...	9		F ...	6 1/2	J ...	5 1/2	

Nett weight of Lantern, 15 1/2 lbs.

PATTERN F I 300-500 Watt "JUNIOR" FLOOD

This lantern has been designed to fill the need for a cheap lantern, to carry out simple jobs such as illumination of garages, small posters, etc., and other situations where accurate beam control is a secondary consideration.

PRICE (exclusive of Lamp) ... £3 0 0

Overall Dimensions : Length, 14 in. Width, 12 1/4 in. Height, 15 in., including base plate.

Nett weight of Lantern, 8 1/2 lbs.

Lamp : 300 or 500 watt Angle Burning General Service. G.E.S. Cap.

Telephone :
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC
AND ENGINEERING CO., LTD.**

FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND OUTDOOR FLOODS

PATTERN 46. 1000 Watt FLOOD



This lantern gives a *medium angle* beam of light suitable for flooding objects from some distance away.

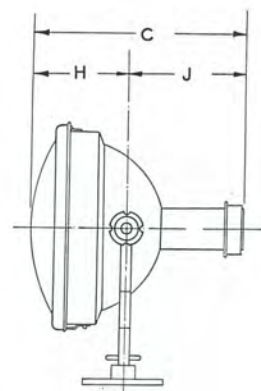
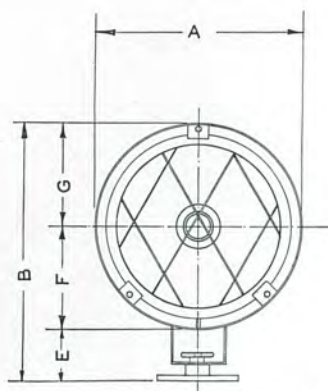
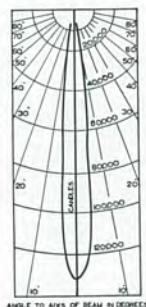
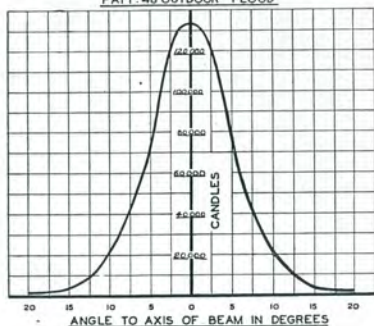
SPECIFICATION

Lantern constructed in copper with spun body, efficiently ventilated. Hinged front door carrying domed heat resisting glass and frame for either glass or "Chromoid" colour medium. One-piece Type 46 circular silvered glass "SUNRAY" reflector. Tilting cradle and heavy cast base, 3 in. diameter locking wheels. Weather-proof entry for wiring. Finish: Service grey enamel outside, matt black inside.

PRICE (exclusive of Lamp) ... £8 0 0

J215 "Chromoid" colour mediums (cut to size) ... 4s. 0d. each
 J216 Coloured glass strips ... 9s. 6d. per set
 Lamp: 1000 watt Angle Burning General Service.
 Beam Angle 54°. Cut Off Angle 125°.

SUNRAY 15" CIRCULAR REFLECTOR
 WITH 1000W ANGLE BURNING GENERAL PURPOSE LAMP.
 PATT. 46 OUTDOOR FLOOD



PATTERN 46

	Ft.	In.		Ft.	In.
A ...	1	6	F ...	9	
B ...	1	11	G ...	9	
C ...	1	6½	H ...	8½	
E ...		5½	J ...	10½	

Nett weight of Lantern, 26 lbs.

PATTERN 46 A. 1000 Watt FOCUS FLOOD

This lantern is similar to the above, but is designed for use with a 1000 watt Class B1 projector lamp. By means of a focussing adjustment a variety of beam angles from 20° to 45° may be obtained.

PRICE (exclusive of Lamp) ... £8 0 0

Overall Dimensions and Weight as for Patt. 46.

Lamp: 1000 watt Class B1 Round Bulb Projector.

Telephone:
 Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address:
 Spotlite, Rand, London.

STRAND OUTDOOR FLOODS

PATTERN 47 500—1000 Watt SQUARE FLOOD

This lantern gives a wide angle horizontal beam, while the vertical distribution is so arranged that the maximum intensity is projected upwards. The lantern is therefore eminently suitable for even illumination of buildings at short range, and may be mounted either on brackets or on canopies, etc.

Lamp : 500 or 1000 watt Angle
Burning General Service.

Beam Angle { Vertical 99°.
Horizontal 103°.

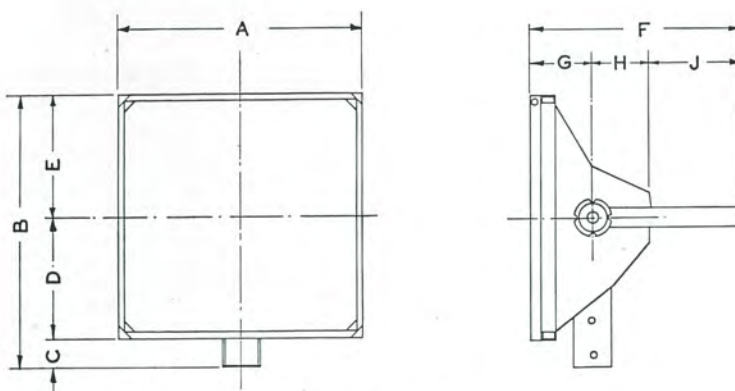


SPECIFICATION

Lantern constructed in lead-coated sheet steel, efficiently ventilated. Sectional silvered glass reflector. Heat resisting front glass. Frame for "Chromoid" colour medium. G.E.S. holder mounted on a special adjustable tray, giving correct filament position for 500 watt or 1000 watt lamp. Cradle with 3 in. locking wheels. Finish : sprayed aluminium inside and out.

PRICE (exclusive of Lamp) ... £4 10 0

J 217 "Chromoid" colours (cut to size) ... 6s. 0d. each



PATTERN 47

	Ft.	In.		Ft.	In.		Ft.	In.
A ...	1	7½	D ...	9	¾	G ...	5	
B ...	1	10½	E ...	9	¾	H ...	4½	
C ...	3		F ...	1	5	J ...	7½	

Nett weight of Lantern, 25 lbs.

Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND OUTDOOR FLOODS

PATTERN 48 1000 Watt SQUARE FLOOD

This lantern is suitable for even flooding of a building from a forecourt and other positions where a few lanterns are required to cover a large area. Owing to the large reflector very efficient use is made of the output of the lamp, and provided that sufficient space is available this lantern provides very economical working.

Lamp : 1000 watt Angle Burning
General Service. G.E.S. Cap.



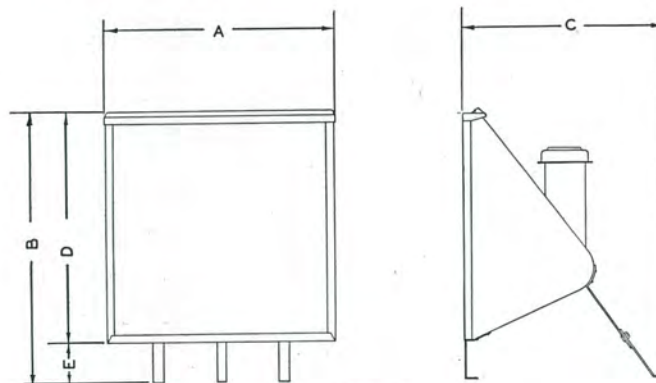
Beam Angle { Vertical 95°.
Horizontal 100°.

SPECIFICATION

Lantern constructed in lead-coated sheet steel, efficiently ventilated. Sectional silvered glass reflector. Heat resisting front glass. Frame for "Chromoid" colour medium. Mounted on two legs in front and one adjustable at rear, giving variable angle of tilt. Finish : service grey enamel outside, white enamel inside.

PRICE (exclusive of Lamp) ... **£6 0 0**

J218 "Chromoid" mediums (cut to size) **6s. 0d. each**



PATTERN 48

	Ft.	In.		Ft.	In.		Ft.	In.
A ...	1	10½	B ...	2	3	C ...	1	6
D ...	1	11	E ...		4			

Nett weight of Lantern, 30 lbs.

Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND OUTDOOR FLOODS

PATTERN 50 B "OUTDOOR PAGEANT LANTERN," 1000 Watt



This lantern provides a very intense narrow angle soft edge beam of light, with slight variation in size of beam. Suitable for floodlighting church spires and objects from a distance. Particularly useful as spotlights in pageants, as it enables high-lights to be put on groups of characters, thus giving a life to pageants hitherto only seen when searchlights have been available. The Tower Pageant and Tattoo was lit by sixty of these lanterns, on colour circuits, in conjunction with general illumination provided by the orthodox type of floodlight.

The highest spire in the country, that of Salisbury Cathedral (404 ft. to the cross) was lit by only four of these lanterns, with 1000 watt Class B Lamps, to each of the four sides, while the tower was illuminated by four Pattern 46 Lanterns to each side. The lanterns were mounted on the

roof, giving a maximum throw of 350 ft.

SPECIFICATION

Lantern constructed in lead-coated sheet steel efficiently ventilated. Spun copper door at rear carrying 10 in. diameter silvered glass parabolic reflector Type 50 tray, giving axial and vertical adjustment for lamp filament. Worm drive focussing. Front of lantern fitted with removable spill rings to cut off direct rays of light. Removable glass diffusing screen, and provision to take coloured glass strips. Weatherproof cable entry. Cradle with 3in. diameter tilting wheels, heavy cast base. Finish: sprayed aluminium outside, matt black inside.

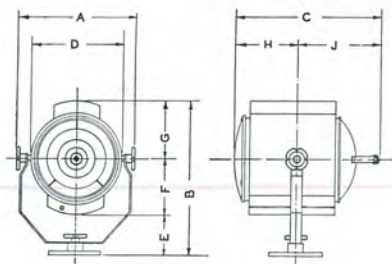
PRICE (exclusive of Lamp) ... £8 8 0

J219 Coloured Glass Diffusing Screens

(Red, Pink, Blue or Amber) ... 3s. 6d. each

Lamp: 1000 watt Class A.I Tubular or Class B.I Projector.
G.E.S. Cap.

Beam Angle: Maximum 17°. Minimum 11°.



PATTERN 50B

	Ft.	In.
A ...	1	3½
B ...	1	8
C ...	1	6½
D ...	1	0
E ...	6	
F ...	6½	
G ...	7½	
H ...	8	
J ...	10½	

Nett weight of
Lantern, 25 lbs.



Salisbury Cathedral

Telephone:
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address:
Spotlite, Rand, London.

STRAND SHOP WINDOW LIGHTING

There is a marked similarity between stage lighting and shop window lighting. Both demand a knowledge of the artistic and showmanship value of light. Thus, those installations of shop window lighting or exhibition stand lighting that Strand Electric engineers have designed, have been singularly successful. The units are a modification of the apparatus and "SUNRAY" reflectors so well known on the stage.

SHOP WINDOW FLOOD (Bracket Unit)



Bracket Unit
(Flood Type : Position 1)



Bracket Unit
(Position 2)



Bracket Unit
(Position 3)

Unit incorporates the well-known "SUNRAY" batten reflector. This patent reflector gives high efficiency combined with proper light distribution. They are specially designed to take colour mediums. Single units

constructed in metal efficiently ventilated. Fitted with "SUNRAY" glass reflectors—colour frames and fixing bracket or chains. To take 60, 100 or 150 watt Gas-filled Theatre Batten Lamps.

PRICE per unit (exclusive of Lamp) ... £1 5 0

BABY SUNRAY FLOOD

Heavier type of above, suitable for rough usage such as exhibition work, etc.

K 220 PRICE (exclusive of Lamp) ... £2 0 0



Shop Window Spot

Patt. 45. MINIATURE SPOTLIGHT (100 or 250 Watt)

Lantern constructed in sheet steel, efficiently ventilated. Access to lamp by hinged door at rear. $4\frac{1}{2}$ in. diameter, $6\frac{1}{2}$ in. focus plano-convex lens, Type 45 tray, complete with spherical chromium-plated reflector. Focussing by knob under lantern. Colour runner on front. Rockbestos tails. Finish : black crystalline enamel outside, matt black inside.

PRICE (exclusive of Lamp) ... £2 15 0

Millboard colour frames and assorted gelatines ... 7s. 0d. per doz.

Lamp : 250 or 100 watt Class B Round Bulb Projector.

Overall Dimensions : A, $8\frac{1}{2}$ in. B, 9 in. C, $11\frac{1}{2}$ in. D, 12 in.

Nett weight of Lantern, $9\frac{1}{2}$ lbs.

SHOP WINDOW MULTIPLE FLOOD (60, 100 or 150 Watt)

Constructed of light gauge sheet metal, finished white enamel. Chains for suspensions. E.S. lampholders, float type "SUNRAY" reflectors, at 8 in. centres.

K 221 PRICE per 4 ft. length (without Lamps) ... ON APPLICATION.

Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND PHOTOGRAPHIC LIGHTING

The majority of the Strand Floods listed on pages 19-27 are suitable for photographic and film work. The "SUNRAY" silvered glass reflector gives such an increase in light when compared with the orthodox type that large wattages are no longer necessary. Furthermore, as diffusing screens are unnecessary when this reflector is used, the usual reduction in light is avoided.



Pattern 41

The following patterns have proved very popular for location work, etc.

Pattern 49. "General Flood," on telescopic stand, with 1000 or 1500 watt General Service Lamp. (See page 22.)

Pattern 59. "Overhead Flood," for suspension, with 1000 or 1500 watt General Service Lamp. (See page 25.)

Pattern 50. "Highlight Spot," on heavy base or telescopic stand, with 1000 or 1500 watt Class A.1 Tubular Lamp. (See page 34.)

PATTERN 41. PORTABLE PHOTO FLOOD. 1000 Watt

This is a compact flood lantern constructed in aluminium, carrying Type 31 circular "SUNRAY" silvered glass reflector. Front of lantern fitted with doors to control side light, which can be closed for transit, and lamp switch. Complete with light folding stand. Finish: black crystalline enamel outside, white inside.

PRICE (exclusive of Lamp) ... £4 4 0

Lamp : 1000 watt A.1 Tubular Projector.

Dimensions : Height 3' 1" min., 5' 3" max. Width 14" (Doors closed). Depth 5".

Nett weight, including stand, 15 lbs.

PATTERN 46 B. 2000 Watt PHOTO SPOT

Lantern constructed in copper, with spun body, efficiently ventilated. One-piece Type 46 circular silvered glass "SUNRAY" reflector. Lampholder mounted on focussing adjustment, giving a variety of beam angles from 20° to 45°. Tilting fork with 3 in. diameter locking wheels. Finish : black enamel outside and inside.

PRICE (exclusive of Lamp) ... £6 15 0

Light telescopic stand (maximum height, 7 ft. 0 in. ;

minimum, 4 ft. 3 in.) £1 2 6 each

Lamp : 2000 watt Cinema Studio, page 104.

Dimensions : Height 1' 11", Width 1' 6". Depth 1' 6 $\frac{3}{4}$ ".

Nett weight of Lantern, 26 lbs.



Pattern 46 B

Telephone :
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC
AND ENGINEERING CO., LTD.**
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND COLOUR MEDIUMS

Colour Charts Supplied on Request

GELATINE (BRITISH MANUFACTURE)

NOTE.—For three-colour mixing, Gelatines Nos. 6 Red, 39 Green, and 19 Blue are required. If double wattage is used on the blue, then No. 20 Blue should be substituted.

1. Yellow	11. Dark Pink	22. Moss Green
3. Straw	12. Deep Rose	23. Light Green
2. Light Amber	36. Surprise Pink (Lavender)	24. Dark Green
2a. Light Medium Amber	14. Ruby	39. Emerald Green
4. Medium Amber	15. Peacock Blue	25. Purple
33. Deep Amber	16. Moonlight Blue	26. Mauve
5. Orange	17. Steel Blue	29. Heavy Frost
6. Fire Red	18. Middle Blue	31. Light Frost
7. Light Rose	19. Dark Blue	27a. Samoiloff Red
8. Salmon	20. Deep Blue	29a. Samoiloff Blue
9. Middle Salmon	21. Pea Green	38a. Samoiloff Mauve
10. Middle Rose		

All colours (22 in. x 17½ in.)	...	...	...	...	...	...	7s. 6d. Nett per doz. sheets
Frosts (22 in. x 17½ in.)	...	...	...	...	...	...	11s. 0d. " " "

Special prices for large quantities. Quantities of one dozen and upwards postage free

"SEECOLOID" (BRITISH MANUFACTURE)

These mediums are particularly suitable for exterior work in floodlights, decorative features, etc. The colours are practically fast and do not have to be replaced as often as gelatines. They are far stronger mechanically, and, in addition, are impervious to water. However, for stage work they will not pass the L.C.C. Regulations or those of some other authorities.

All Colours and Frosts.	S 23. Light Amber	S 10. Blue (Medium)
Per Sheet 24 in. x 20 in. ... 3/- Nett	S 18. Dark Amber	S 19. Royal Blue
Per Double Sheet 48 in. x 20 in. ... 6/- Nett	S 21. Orange	S 16. Green
	S 22. Rose	S 20. Emerald Green
Colour Mixing Colours : No. 15 Red, 20 Green,	S 14. Pink	S 13. Violet
and 19 Blue.	S 15. Red	S 25. Fuchsia
	S 17. Blue (Moonlight)	
	S 26. Clear, polished both sides	
	S 27. Clear matt one side, polished other side	

"CHROMOID" NON-FLAM (BRITISH MANUFACTURE)

These mediums possess all the advantages of the "Seecoloid," in addition they are NON-INFLAMMABLE, and comply with the regulations of the London County Council. The ideal medium for cyclorama colour mixing.

PRICES (colours as above, numbers to be preceded by the letter C).

Per Sheet 24 in. x 20 in. ...	3/6 Nett
Per Double Sheet 48 in. x 20 in. ...	7/- Nett

Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND COLOUR MEDIUMS

INCANDESCENT

LAMP LACQUER

SHADES AS COLOUR MEDIUMS

PRICE ... 4/- per pint Nett

(Inclusive of Dipping Carton)

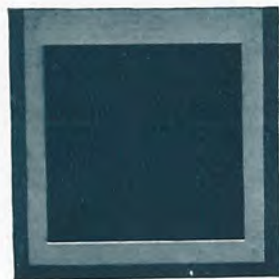
SPECIAL SHADES BLENDED TO ORDER



OPAQUE LAMP LACQUER FOR OUTDOOR USE

SUPPLIED IN THE FOLLOWING COLOURS

1091 Amber	760 Red	} 8/6 per Pint Nett
969 Orange	1117 Pink	
939 Green	979 White	
893 Blue		



Millboard
Colour
Frames

COLOUR MEDIUM FRAMES

		Pattern		Size		PRICE	
L 222	"FLOOD"	...	No. 37	...	15" x 11 3/4"	...	13/- per doz.
L 61	"SUNRAY"	...	No. 30	...	11 3/4" x 11 3/4"	...	9/- "
L 85	STANDARD FOCUS	No. 22 & 23	...	...	10 3/4" x 7 5/8"	...	7/6 "
L 225	1000 watt SPOT	...	No. 43	...	8 3/4" x 7 5/8"	...	7/6 "
L 80	500 watt SPOT	...	No. 44	...	6" x 6"	...	6/- "
L 76	MINIATURE SPOT...	No. 45	...	...	5 5/8" x 5 1/4"	...	6/- "
L 73	FLOAT BABY SPOT	No. 27	...	...	4 1/4" x 4 1/4"	...	5/- "

(Exclusive of Gelatines)

Special Sizes made to order.

Strongly made in
Linen Bound Mill-
board with one
end open to Slide
in Colour medium

Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND ACCESSORIES

HALF WATT TRAY

L 229 As illustration, aluminium castings, finished matt black. G.E.S. black china holder, carried in ring adjustments, provided to give vertical and axial adjustment for lamp filament. 5 in. diameter chromium-plated spherical reflector and adjustable cradle. Removable focussing knob under.

PRICE ... £1 7 0

SPHERICAL REFLECTORS (Chromium Plated)

These are supplied separately, complete with the necessary cradles and adaptors, to fit lanterns supplied previous to October, 1935.

					PRICE
				s. d.	
L 230	6" diameter for 2000 watt Spot	...	...	15	6 each
L 231	5" diameter for Pattern 43	...	...	12	6 "
L 232	5" diameter for Pattern 44	...	...	12	6 "
L 233	3½" diameter for Pattern 45	...	...	6	6 "

ARC LAMP

L 234 15/20 amp. 2-movement hand feed, carried on tray with removable focussing knob under. Rockbestos wiring to pair of terminals.

PRICE ... £4 7 6



Cinema Pattern



Standard Pattern



Lyre Pattern

ORCHESTRA STANDS

Made up of sheet metal, mounted on telescopic stand, with cast iron base.

L116	Cinema Pattern. Finished black, and fitted with two lampholders. Minimum height, 52 in. Maximum, 61 in. (Nett weight, 26 lbs.)	...	...	...	...	£	s.	d.	
		...	...	...	...	2	5	0	each
L117	Standard Pattern. Finished black, and fitted with lampholder. Minimum height, 51 in. Maximum, 75 in. (Nett weight, 19 lbs.)	...	...	...	...	1	7	6	"
L118	Lyre Pattern. Finished gilt, and fitted with two lampholders. Minimum height, 60 in. Maximum, 78 in. (Nett weight, 20 lbs.)	...	...	...	...	2	10	0	"

Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
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Telegraphic Address :
Spotlite, Rand, London.

FLOOD and SPOTLIGHT STANDS

Wrought iron $\frac{3}{4}$ in. barrel screwed into cast iron base plate as illustrated. Fitted with extending liner of $\frac{3}{8}$ in. gas barrel with 3 in. diameter locking wheels and cable hook. Minimum height, 4 ft. 3 in. Maximum, 7 ft. 0 in.



L 60

L 66

Telescopic Stands



L 111 Tripod Stand



L 112 Bench Base



L 113 Flange Plate Stand



L 79



L 114

L 111 Tripod stand, made up of 1 in. gas barrel and light angle iron, with $\frac{1}{2}$ in. liner, 3 in. diameter locking wheels, and fitted with safety pin. Minimum height, 3 ft. 6 in. Maximum, 6 ft. 0 in. (Nett weight, 17 lbs.) 2 15 0

L 112 Heavy cast iron bench base with locking lever. Height, 8 in. (Nett weight, 7 lbs.) 0 5 6

L 113 Flange plate stand with locking wheels and 4 in. diameter base. Height, 6 in. (Nett weight, $2\frac{1}{2}$ lbs.) 0 3 6

L 79 Swivel arm bracket (extending 12 in.) 0 7 6

L 114 Knuckle arm bracket with two joints (extending to 18 in.) 1 3 0
Extra joints 0 6 0

L 115 Theatrical dressing table standard, 12 in. high, with 6 in. diameter heavy cast base. B.C. holder, finished any colour 7 6 Nett

Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
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SPARE GLASS FOR STRAND LANTERNS

SUNRAY SILVERED GLASS REFLECTORS

	£	s.	d.	
Footlight Types B and C, new pattern	0	6	0	each
Old pattern, issued before May, 1936	0	6	0	"
Type A I	0	12	0	"
Batten, B and C types	0	6	0	"
D type (D 200)	0	16	0	"
Standard ground row and pros. length, 1-piece	0	6	0	"
Cyclorama ground row, Type P 3-piece	0	6	0	per set.
Type 30. Used in Pattern 30	0	15	0	each
" 35. " " 60, 35, 55	0	15	0	"
" 49. " " 49	1	7	6	"
" 49A. Four-piece. " " 49A and 49B	1	10	0	"
" 56. Three-piece. " " 56	1	15	0	"
" 59. " " 59	1	7	6	"
" 38. Three-piece. " " 38 and 37	1	15	0	"
" 46. " " 46, 46A and 46B... ..	1	10	0	"
Complete set of pieces of Pattern 47	0	16	6	"
" " " " 48	1	10	0	"
10 in. diameter mirror for Pattern 50A and 50B	1	12	6	"
8 in. " " " Pattern 73	1	16	0	"

HEAT RESISTING FRONT GLASSES FOR OUTDOOR LANTERNS

	£	s.	d.	
Pattern 38	0	10	0	each
" 46. Circular domed heat resisting glass	1	5	0	"
" 50B. " " " " " "	0	10	0	"
" 47. Square flat heat resisting glass	0	17	6	"
" 48. " " " " " "	0	17	6	"

Diffusing Glasses.

Spares for Pattern 50 A. Clear	0	1	6	"
" " " 50 B. " " " " " "	0	2	0	"

PLANO CONVEX LENSES

	£	s.	d.			£	s.	d.	
3 in. x 6 in. focus	0	4	6	each	8 in. x 13 in.	1	15	0	each
4½ in. x 6½ in. "	0	5	6	"	Heat resisting for use with Arcs.				
6 in. x 8 in. "	0	14	6	"	6 in. x 8 in.	2	5	0	"
6 in. x 9 in. "	0	12	6	"	6 in. x 9 in.	2	0	0	"
6 in. x 10 in. "	0	11	6	"	6 in. x 10 in.	1	18	6	"
6 in. x 12 in. "	0	12	0	"	6 in. x 9 in. Step Lens	0	15	0	"

5 in. x 9 in. focus diameter lenses for condensers (pair required), used in Patterns 51, 33, and 61.

Single Lens	0	7	6	each
Pair in jacket	1	15	0	"

Lens Prices subject to market fluctuations

PROJECTOR LAMPS

Listed on the following pages are some of the special lamps referred to in the catalogue. In addition to these complete stocks of all the standard lamps are held in the Sales Department.

**CLASS
B I**



**ROUND BULB
PROJECTOR**

These are suitable for use in focus lanterns such as Pattern 43B. They may be used at any angle except within 45° of vertical, cap upwards. Approximate life 800 hours.

Voltage	Watts	Maximum Dimensions			Type of Filament	Area of Filament	Cap	PRICE each
		Overall Length	Diam.	Filament Centre to Cap Contact				
100 to 130	100	m/m 130	m/m 80	m/m 75	Bunch	m/m 10 x 10	E.S.	£ s. d. 0 9 0
	250	133	95	75	"	8 x 11	"	0 19 0
	500	190	130	115	"	11 x 14	G.E.S.	1 5 0
	1000	190	130	115	"	18 x 23	"	1 12 0
200 to 260	100	130	80	75	Bunch	10 x 11	E.S.	0 9 0
	250	133	95	75	"	11 x 10	"	0 19 0
	500	190	130	115	"	15 x 15	G.E.S.	1 5 0
	1000	190	130	115	"	20 x 25	"	1 12 0

Pre-focus cap, if fitted to the 500, 1000, and 2000 watt lamps, **2s. 6d.** extra.

THE ABOVE PRICES ARE SUBJECT TO E.L.M.A. FLUCTUATIONS.

Telephone :
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC
AND ENGINEERING CO., LTD.**

Telegraphic Address :
Spotlite, Rand, London.

FLORAL STREET, COVENT GARDEN, W.C.2

PROJECTOR LAMPS

CLASS A I TUBULAR PROJECTOR

These are suitable for use in Spotlights, such as Pattern 53, the concentrated filament giving greater optical efficiency and approximately 25 per cent. more light than Class B. The lamp may not be tilted, but must be burnt vertical cap down. Approximate life 100 hours.



Voltage	Watts	Maximum Dimensions			Type of Filament	Area of Filament	Cap	PRICE each
		Overall Length	Diam.	Filament Centre to Cap Contact				
100 and 110	100	m/m 134	m/m 32	m/m 75	Grid	m/m 10 x 9	B.C. or E.S.	£ s. d. 0 10 9
	250	134	64	75	"	11 x 10	E.S.	1 0 0
	500	134	64	75	"	13 x 16	E.S.or G.E.S.	1 5 0
	1000	240	64	120	"	16 x 15	G.E.S.	1 12 0
200 to 260	100	134	32	75	Grid	8 x 13	B.C. or E.S.	0 10 9
	250	134	64	75	"	11 x 13	E.S.	1 1 0
	500	134	64	75	"	15 x 18	E.S.or G.E.S.	1 5 0
	1000	240	64	120	"	15 x 23	G.E.S.	1 12 0

CINEMA STUDIO CLASS

This lamp, which is used in the Patterns 52A and B, may be used at any angle except within 45° of vertical, cap upwards. Approximate life 100 hours.



Voltage	Watts	Maximum Dimensions			Type of Filament	Area of Filament	Cap	PRICE each
		Overall Length	Diam.	Filament Centre to Cap Contact				
100-110 200-260	2000	m/m 220	m/m 150	m/m 135	Grid	m/m 23 x 20	G.E.S.	£ s. d. 4 5 0

Pre-focus cap, if fitted to the 500, 1000 and 2000 watt Lamps, 2s. 6d. extra.

THE ABOVE PRICES ARE SUBJECT TO E.L.M.A. FLUCTUATIONS

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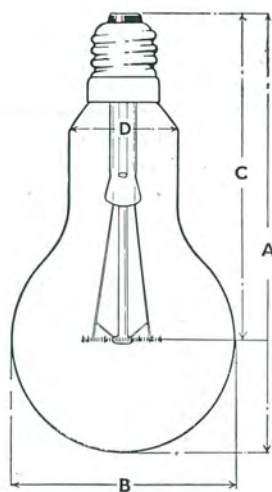
GENERAL SERVICE LAMPS

The Theatre Batten Lamps have been specially designed for use in Strand battens and floats. The filament position and bulb size is the same for all three wattages, ensuring that the reflector is always in focus.

The Angle Burning Lamps, which are the same price as the standard gasfilled, are fitted with a supported filament so that filament sag is eliminated, no matter at what angles the lamps may be burnt on the stage.



200 watts
Osram Gasfilled Lamp



Dimensional Diagram
150-1500 watts

CLEAR GASFILLED LAMPS

Standard watts	Standard cap	Type of Lamp	PRICE per Lamp	
			100, 105, 110, 115, 120, 125, 130, 200, 210, 220, 230, 240, 250 and 260 Volts	
60	ES	Theatre Batten	s. d.	
100			3	3
150			3	3
200			5	0
300	GES	Angle Burning	7	6
500			10	0
1000			12	6
1500			16	0
		General Service	22	6

DIMENSIONS AND LIGHT OUTPUT

Standard watts	Voltage range	Approx. lumens	Length		Bulb diameter		Cap contact to filament centre		Neck diameter	
			A		B		C		D	
			m/m	ins.	m/m	ins.	m/m	ins.	m/m	ins.
60	100-130 200-260	730 580	135	5 $\frac{5}{16}$	75	2 $\frac{15}{16}$	120	4 $\frac{3}{4}$	40	1 $\frac{1}{2}$
100	100-130 200-260	1400 1160								
150	100-130 200-260	2130 1950								
200	100-130 200-260	2960 2730	178 $\pm$ 5.5	7	90 $\pm$ 1	3 $\frac{1}{2}$	133 $\pm$ 5	5 $\frac{1}{4}$	45 $\pm$ 1	1 $\frac{3}{4}$
300	100-130 200-260	4770 4380	233 $\pm$ 7	9 $\frac{1}{8}$	110 $\pm$ 1.5	4 $\frac{5}{16}$	178 $\pm$ 6	7	50 $\pm$ 1	1 $\frac{15}{16}$
500	100-130 200-260	8700 7920	267 $\pm$ 8	10 $\frac{1}{2}$	130 $\pm$ 1.5	5 $\frac{1}{8}$	202 $\pm$ 7	7 $\frac{1}{16}$	52 $\pm$ 1	2
1000	100-130 200-260	19300 17900	300 $\pm$ 9	11 $\frac{3}{4}$	150 $\pm$ 1.5	5 $\frac{7}{8}$	225 $\pm$ 8	8 $\frac{7}{8}$	55 $\pm$ 1	2 $\frac{3}{16}$
1500	100-130 200-260	30300 28700	335 $\pm$ 9	13 $\frac{1}{4}$	170 $\pm$ 1.5	6 $\frac{11}{16}$	250 $\pm$ 8	9 $\frac{13}{16}$	60 $\pm$ 1	2 $\frac{3}{8}$

"Osira" 400 watt Street Lighting Lamp, for voltages from 200-250, 50 cycles £2 0 0

THE ABOVE PRICES ARE SUBJECT TO E.L.M.A. FLUCTUATIONS

Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
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FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

ARC LAMP CARBONS

Listed below are the carbons recommended for use in the arc lanterns shown on pages 40-44. In addition, Strand Electric are distributors for "Columbia" and "Kinarko" Kinematograph Carbons

"SHIP" STAGE ARC CARBONS (D.C.)

Amperes	Diam. of Positive	Diam. of Negative	Arc Volts	PRICES NETT Per Hundred			
				4½ in.		6 in.	
				Pos.	Neg.	Pos.	Neg.
Up to 40 amps. use "Ship" Stage Arc (S.A.), Positive No. 50 Cored (but not copper-coated) with Ship Stage Arc (S.A.), Negative No. 50 Solid (not copper-coated).							
10	8 m/m	5 m/m	48	9/9	7/6	13/-	10/-
20	15 m/m	8 m/m	48	24/9	9/9	33/-	13/-
25	16 m/m	9 m/m	48	25/6	12/-	34/-	16/-
30	18 m/m	10 m/m	50	33/9	14/3	45/-	19/-
40	20 m/m	12 m/m	50	39/6	19/6	53/-	26/-
From 50 to 120 amps. use "Ship" Stage Arc Positive No. 50 Cored (not copper-coated) or alternatively "Ship" Kino No. 7. Either of these positives with Kino No. 6 negative which is cored and copper-coated.							
50	20 m/m	8 m/m	52	—	—	53/-	25/-
60	20 m/m	10 m/m	52	—	—	53/-	29/-
80	22 m/m	11 m/m	52	—	—	63/-	32/-
100	25 m/m	12 m/m	54	—	—	87/-	34/-
120	28 m/m	14 m/m	56	—	—	105/-	38/-

"SHIP" WHITE FLAME CARBONS (A.C.)

			PRICES		NETT
Amperes	Diameter	Arc Volts	Per Hundred		
			4½ in.	6 in.	
“Ship” White Flame No. 61 carbons for A.C. projection.					
15-20	10 m/m	25-28	16/3	21/6	
20-25	11 m/m	25-28	20/-	26/6	
25-30	12 m/m	25-28	22/3	29/6	
30-35	13 m/m	25-28	24/9	33/-	
35-40	14 m/m	25-28	28/3	37/6	
40-60	16 m/m	30-35	33/9	45/-	
60-75	20 m/m	30-35	52/6	70/-	
75-100	22 m/m	30-35	63/9	85/-	

The same diameter carbon is used in both the upper and lower positions for A.C. work. Sometimes better results are obtained by using a carbon 1 m/m less in diameter in the lower position, as only one crater is used for projection work.

STRAND SIGNS

The application of Electric Illumination to Advertising has provided the most striking advance in the history of publicity. Illuminated Publicity consists to-day of—

Neon Signs and Displays

Electric Lamp Signs

Floodlighting

Electric Window, Fascia, and Box Signs

Acetate Letters for Canopy Display,

etc., and

SPECIAL STRAND PATENTED PRODUCTS, such as SuNeon,
Architectural Neon, and Architectural Tube Lamp Signs



Example of a Strand Neon Display at Tivoli Cinema, London

NEON SIGNS AND DISPLAYS

Comprising glass tubes of various diameters, filled with Neon and other rare gases, which by a high voltage electrical current discharged within are brilliantly illuminated in colours. These coloured tubes may take the form of letters mounted on wood or other suitable backings, or be fashioned in any type of design or device. The chief advantage of Neon signs is their exceptional brilliancy and low running cost.

SUNEON (STRAND PATENT)

The SuNeon is an interesting and effective innovation in Neon design which is now being largely used for theatre and commercial displays.

The front of each letter is faced with a specially designed silvered reflector, which places this sign in the category of a first-class DAYLIGHT SIGN.

Twenty-four hours' publicity can be assured when this form of display is selected.

The principle of this Daylight Letter has also been applied to the Bulb Lamp Sign with gratifying results.

NEON LETTERS

are supplied not only on hard wood backing letters or the patented SuNeon surface, but can be offered on metal, such as Stay-brite or Cellulosed Enamel Trough Section Backings. The above illustration is an example in which the metal trough Neon Letter has been used.



SuNeon Principle applied to a Lamp Letter Sign at Palace Theatre, London

Flashing Effects can be produced with any Strand Sign if desired

HIRE SERVICE

The STRAND SIGN HIRE DEPARTMENT is now in a position to supply on hire for short or long periods, any of the above types. Special devices in Neon and Lamps are also available. Enquiries are invited. Sketches, with estimates, submitted without obligation.

Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND SIGNS

STRIKING EXAMPLES OF A SUNEON DISPLAY



Day and Night Effect of a Strand SuNeon Display.

Left: Day View of London Hippodrome.

Right: Night View of Empress Hall, Earl's Court, London.

LAMP LETTERS

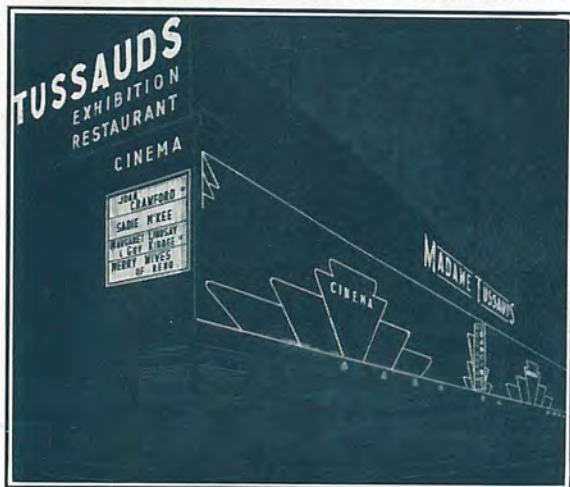
The variety of types of Sign Letters now available, either for sale or hire, assures complete satisfaction under any circumstances or conditions. But although Neon has many advantages, there are instances where the Bulb Lamp Letter can easily be the most effective and have the greatest publicity value.

A sign expert is always available to advise you which of the Strand Products will be the most efficient, taking into consideration your local conditions.

ARCHITECTURAL NEON (STRAND PATENT)

Has been designed to give an enhanced illuminating effect on more architectural lines, whilst obviating unsightliness by completely concealing the accessories with protective covers of solid crystal rods, possessing considerable mechanical strength.

INTERCHANGEABLE ARCHITECTURAL NEON LETTER SIGNS



Mme. Tussauds, London.

This new principle is also adapted with marked success for interchangeable signs for use with silhouette letters or cut out stencils.

Strand Neon Display with interchangeable Architectural Neon Letter Sign at end of building.

All Neon Tubes with high tension equipment are entirely concealed by bank of heavy glass rods.

Effect is a background of even, exceptionally brilliant light, with clearly defined letters which can be changed in the minimum of time.



Architectural Neon or Tube Lamp Unit

Telephone :
Temple Bar 7464 (6 lines).

**STRAND ELECTRIC
AND ENGINEERING CO., LTD.**

FLORAL STREET, COVENT GARDEN, W.C.2

Telegraphic Address :
Spotlite, Rand, London.

STRAND SIGNS

DIRECTIONAL NOTICE SIGNS (Illuminated) CRYSTALITE SIGNS



Surface Mounting. Lettered
Glass 17/9
Surface Stencil. Backed Opal 15/9
Flush mounting. Lettered
glass 24/6
Flush mounting. Stencil
backed opal 22/6
All Prices excluding Lamps and Lampholders



Surface mounting. Lettered
glass
Surface stencil. Backed
opal
Flush mounting
Flush stencil

Prices on application

CRYSTALITE EXIT SIGNS



Single- or double-sided circular
frame. Illuminated from two
edges. Finished bronze or chro-
mium, etc.

Prices on application

Please state if two circuits are
required.

The standard colour of lettering is White, but coloured (Red, Green, etc.) can be supplied if
desired. Engraved designs can be incorporated. Sketches and prices submitted for special signs.

These directional signs are
strongly constructed of
rustless metal. Finished
black or bronze cellulose
enamel. White interiors.
Fronts fitted with lettered
glass, or metal stencils
backed white opal.

Standard 7 in. letters.

Conforming with require-
ments of the Licensing
Authorities.

Special Designs

*Sketches and Prices on
application*

Exit Signs can also be
supplied for gas illumina-
tion.

These signs are illuminated
by one or more tubular
lamps which are concealed
in the frame supporting
the glass panel.

The light is projected
through the edge of the
glass, illuminating the
deeply engraved letters
in an attractive manner.

Single- or double-
sided

Finished in satin brass,
cellulose bronze, oxy-
dised copper, or silver.
Also chromium.



Circular frame. Illuminated from
one edge, supported by chains
and ceiling plates.



Moulded frame. Rigid bracket
fixing. Illuminated from one edge.



Circular frame (rigid fixing to
ceiling). Illuminated from one edge



Moulded frame. Supported by
bracket. Can be supplied without
metal-bound glass edges.

Telephone :
Temple Bar 7464 (6 lines).

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FLORAL STREET, COVENT GARDEN, W.C.2

HIRE CHARGES

Scheduled below are the hire prices for standard apparatus listed in the "Theatrical Lighting" catalogue. The apparatus is hired complete and ready to work, and is subject to the conditions of hire set out on page 120.

A suitable number of spare lamps are included in each consignment.

THESE PRICES ARE FOR A PERIOD OF ONE WEEK OR PART THEREOF, AND ARE SUBJECT TO 10 PER CENT. REDUCTION FOR THE FIFTH WEEK AND THEREAFTER.

A. FOOTLIGHTS and BATTENS

SUNRAY MAGAZINE FOOTLIGHT B TYPE (compartments at 7 in. centres, supplied in 6 ft. sections, three or four colours).

With set of gelatine colours in metal frames, up to 50 ft. tails with plug connectors, with 60 or 100 watt Theatre Batten Lamps.

1/- per compartment.

With 150 watt Lamps, 1/3 per compartment.

SUNRAY MAGAZINE BATTEN B TYPE (compartments at 7 in. centres, supplied in 6 ft. sections, three or four colours).

With set of gelatine colours in metal frames, up to 50 ft. tails with plug connectors. Complete with chain bridles and suitable length of barrel. With 60 or 100 watt Theatre Batten Lamps.

1/- per compartment.

With 150 watt Lamps, 1/3 per compartment.

OPEN TYPE FOOTLIGHTS

Wired for three circuits, lampholders at 4 in. centres, up to 50 ft. tails with plug connectors.

PRICE (exclusive of Lamps) ... 1/- per foot

40 watt Vacuum B.C. Lamps (dipped colours) for above.

4/- per doz.

OPEN TYPE BATTENS

Wired for three circuits, lampholders at 4 in. centres, up to 50 ft. tails with plug connectors, and chain suspensions.

PRICE (exclusive of Lamps) ... 1/- per foot

40 watt Vacuum B.C. Lamps (dipped colours) for above.

4/- per doz.

B. STAGE FLOODS

PATTERN 30 500 WATT MEDIUM ANGLE STAGE FLOOD

Supplied with six gelatine colours in millboard frames, light telescopic stand (if required), up to 50 ft. tails with plug connectors, and 500 watt General Service Lamp.

6/6 each

The above prices are based on single units. Special inclusive quotations for quantities will be furnished on application.

Telephone :
Temple Bar 7464 (6 lines).

STRAND ELECTRIC
AND ENGINEERING CO., LTD.
FLORAL STREET, COVENT GARDEN, W.C.2

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WEEKLY HIRE CHARGES—continued**PATTERN 60 500 WATT WIDE ANGLE STAGE FLOOD**

Complete as above.

6/6 each

PATTERN 49 1000 WATT MEDIUM ANGLE STAGE FLOOD

Supplied with six gelatine colours in metal frames, heavy telescopic stand (if required) up to 50 ft. tails with plug connectors, and 1000 watt General Service Lamp.

7/6 each

PATTERN 49A 1000 WATT WIDE ANGLE STAGE FLOOD

Complete as above.

7/6 each

PATTERN 56 1000 WATT ACTING AREA LANTERN, NARROW ANGLE FLOOD

Supplied with two gelatine colours in metal frames, barrel clamp (if required) up to 50 ft. tails with plug connectors, and 1000 watt General Service Lamp.

7/6 each

PATTERN 59 1000 WATT MEDIUM ANGLE VERTICAL FLOOD (17 in. SUNRAY)

Supplied complete as above.

7/6 each

PATTERN 35 1000 WATT ARENA WIDE ANGLE FLOOD

Supplied complete as above.

7/6 each

TRIPLE 500 WATT WING FLOOD

Supplied with six gelatine colours in millboard frames, up to 50 ft. tails with plug connectors, 500 watt General Service Lamp.

£1 0 0 each

TRIPLE 1000 WATT WING FLOOD

Supplied with six gelatine colours in metal frames, up to 50 ft. tails with plug connectors, 1000 watt General Service Lamp.

£1 2 6 each

C. FOCUS LANTERNS and SPOTLIGHTS**PATTERN 27 250 WATT FLOAT SPOT**

Supplied with three gelatine colours in millboard frames, up to 50 ft tails, and 250 watt Class B Projector Lamp.

3/6 each

PATTERN 45 250 WATT MINIATURE SPOT

Supplied with three gelatine colours in millboard frames up to 50 ft. tails, and 250 watt Class B Projector Lamp, and spherical chromium Reflector.

3/6 each

*The above prices are based on single units. Special inclusive quotations for quantities will be furnished on application.*Telephone :
Temple Bar 7464 (6 lines).**STRAND ELECTRIC
AND ENGINEERING CO., LTD.**Telegraphic Address :
Spotlite, Rand, London.**FLORAL STREET, COVENT GARDEN, W.C.2**

WEEKLY HIRE CHARGES—*continued***PATTERN 44 500 WATT BABY SPOT**

Supplied with six gelatine colours in millboard frames, up to 50 ft. tails with plug connectors, spherical chromium-plated reflector, light pattern telescopic stand or barrel clamp (if required), and 500 watt Class B.I Projector Lamp.

6/6 each

PATTERN 43B 1000 WATT STAGE SPOT

Complete as above, but with 1000 watt Class B.I Projector Lamp.

7/6 each

Class A.I Tubular Lamp, 1/- extra

PATTERN 43A 1000 WATT BATTEN SPOT

Complete as above, but with barrel clamp.

8/6 each

PATTERN 52A 2000 WATT FOCUS FLOOD

Complete with six gelatine colours in metal frames, up to 50 ft. tails with plug connectors, spherical chromium-plated reflector, cradle and heavy cast base, and 2000 watt Cinema Studio Lamp.

£1 5 0 each

PATTERN 52B 2000 WATT SPOT

As above, but with heavy telescopic stand.

£1 5 0 each

PATTERN 50A INDOOR 1000 WATT PAGEANT LANTERN

Complete with six gelatine colours in millboard colour frames, diffusing screen, up to 50 ft. tails with plug connectors, heavy cast base, and 1000 watt Class B.I Projector Lamp.

9/- each

Class A.I Tubular Lamp, 1/- extra

PATTERN 53 1000 WATT DOUBLE FOCUS SPOT

Supplied with six gelatine colours in metal frames, up to 50 ft. tails with plug connectors, heavy telescopic stand, and 1000 watt Class A.I Projector Lamp with pre-focus cap.

15/- each

PATTERN 63 1000 WATT STELMAR SPOTLIGHT

Supplied with six gelatine colours in millboard frames, up to 50 ft. tails with plug connectors, special tripod stand, and 1000 watt Class A.I Projector Lamp.

£1 1 0 each

PATTERN 73 1000 WATT MIRROR SPOT

Supplied with six gelatine colours in frames, up to 50 ft. tails with plug connectors, heavy pattern telescopic stand, or barrel clamp if required, and 1000 watt Class B.I Projector Lamp.

7/6 each

Class A.I Tubular Lamp 1/- extra

PATTERN 74 250 WATT MIRROR SPOT

Complete with three gelatine colours in frames, up to 50 ft. tails, barrel clamp, and Class B.I 250 watt Lamp.

4/6 each

The above prices are based on single units. Special inclusive quotations for quantities will be furnished on application.

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WEEKLY HIRE CHARGES—*continued***SPOTTING ATTACHMENTS**

For Patterns Nos. 43, 43B, and 44.

2/6 each**RAINBOW AND COLOUR WHEELS**

Complete with assorted coloured gelatines, to fit Patterns Nos. 43, 43B, 63, 23A, 22, 42, and 44.

1/6 each**FLICKER WHEELS**

To fit Patterns Nos. 43, 43B, 63, 23A, 22, 42, and 44.

1/- each**IRIS DIAPHRAGMS**

To fit Patterns Nos. 43, 43B, 63, 23A, 22, 42.

2/6 each**AUTOMATIC COLOUR WHEELS**

Complete with one battery, and 50 ft. of lead and switch.

5/- each**MIRROR BALLS**

12 in. Mosaic Pattern, complete with clockwork rotator.

10/- each

Ditto, but with electric motor.

15/- each**D. ARC SPOTLIGHTS****PATTERN 23A 15/20 AMP. ARC SPOT**

Supplied with six gelatine colours in millboard frames, heavy telescopic stand, arc lamp, one pair of carbons, and up to 25 ft. lead.

7/6 each

Necessary Resistance and Arc Plug Board.

5/-**PATTERN 22 FRONT OF HOUSE SPOTTING ARC, 30/40 AMPS.**

Supplied complete as above.

10/- each

Necessary Resistance and Arc Plug Board.

5/-

The above prices are based on single units. Special inclusive quotations for quantities will be furnished on application.

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WEEKLY HIRE CHARGES—*continued*

PATTERN 42 COMBINED SPOTTING AND OPTICAL EFFECTS LANTERN, 30/40 AMPS.

Supplied complete as above.

10/6 each

Necessary Resistance and Arc Plug Board.

5/—

E. CYCLORAMA LIGHTING

PATTERN 55 CIRCULAR 500 WATT CYCLORAMA FLOOD

Supplied with two gelatine colours in metal frames, barrel clamp (if required) up to 50 ft. tails with plug connectors, and 500 watt General Service Lamp.

6/6 each

PATTERN 49B SQUARE 1000 WATT CYCLORAMA FLOOD

Supplied complete as above, but with 1000 watt General Service Lamp.

7/6 each

GROUND ROWS (compartments at 6 in. centres, supplied in 6 ft. sections, three or four colour).
Supplied with gelatine colours in frames, up to 50 ft. tails with plug connectors, with 60 or 100 watt Theatre Batten Type Lamps.

1/— per compartment

Ditto, but with 150 watt Lamps.

1/3 per compartment

F. "EFFECTS" LIGHTING

PATTERN 51 1000 WATT OPTICAL EFFECTS PROJECTOR

Supplied with spherical chromium-plated reflector, heavy pattern telescopic stand, or barrel clamps if required, up to 50 ft. tails with plug connectors, and 1000 watt Class B.1 Projector Lamp.

9/— each

Ditto, but with 1000 watt A.1 Projector Lamp.

10/— each

PATTERN 33 OPTICAL EFFECTS PROJECTOR, 20/40 AMPS.

Supplied complete with heavy telescopic stand, arc lamp, and up to 25 ft. lead.

10/— each

Necessary Resistance and Arc Plug Board.

5/—

The above prices are based on single units. Special inclusive quotations for quantities will be furnished on application.

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WEEKLY HIRE CHARGES—continued**OPTICAL "EFFECTS" ATTACHMENTS**

Fleecy Clouds. Storm Clouds. Rain. Snow. Waterfall. Running Water. Smoke and Flames. Sand Storm. Rough Sea Wave. Water Ripple. Jazz Colour. Dissolving Colours.

15/- each

TURNTABLE FRONT AND SLIDE CARRIER

5/- each

These Effects are supplied with Objective Lens. The length of throw and size of picture required should be stated when ordering.

ULTRA-VIOLET RAY GLASS FILTERS (HEAT RESISTING)

Mounted in sheet metal frame, to suit standard focus runners.

7/6 each

F (contd.)**MISCELLANEOUS "EFFECTS"****MOTOR DRIVEN**

Motor Car. Motor Cycle. 5/- each

Cane Wind Machine. 10/- each

Aeroplane Effect. 5/- each

Electric Sirens, ranging from 3/6 to 5/- each Nett.

The above Effects are fitted with Universal Motors which can be used on A.C./D.C. and on different voltages.

HAND DRIVE

Surf. 5/- each

Rain Box. 2/6 each

Wind. 5/- each

Thunder Sheet. 1/6 each

TRIGGER LIGHTNING LANTERN

complete with cable. 2/6 each

Necessary resistance for above if required. 2/6 each

The above prices are based on single units. Special inclusive quotations for quantities will be furnished on application.

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WEEKLY HIRE CHARGES—*continued***ELECTRIC BLOWERS**

Prices ranging from 5/6 to £2 2 0 each

ILLUMINATED FOUNTAINS (UNIVERSAL)

Various patterns and sizes.

From £1 1 0 each

PLUGBOARDS

10 amp. Plug, Switch, and Fuse Boards.

6d. per way

H. DIMMERS and DIMMER BOARDS**DIMMERS (SLIDING PATTERN)**

Up to 500 watts. 2/6 each

Up to 1000 watts. 3/6 each

Up to 1500 watts. 6/- each

Up to 2000 watts. 7/6 each

Up to 3000 watts. 15/- each

LIQUID DIMMERS UP TO 40 AMPS.

In framework, with operating handles and complete with special salts.

From 10/- per way

PORTABLE TEAK DIMMER BOARDS

Up to 500 watts. 2/6 per way

Up to 1000 watts. 3/6 per way

NEW TYPE INTERLOCKING PORTABLE DIMMER BANKS

6-way, 1000 watt. £1 10 0 each

12-way, 1000 watt. £2 2 0 each

J. OUTDOOR FLOODLIGHTING**PATTERN 38 500 WATT CIRCULAR WIDE ANGLE OUTDOOR FLOOD**

Complete with 500 watt General Service Lamp and domed heat-resisting front glass.

6/6 each

"Chromoid" Colour Mediums for above. 2/- each

*The above prices are based on single units. Special inclusive quotations for quantities will be furnished on application.*Telephone :
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WEEKLY HIRE CHARGES—continued**PATTERN 46 1000 WATT MEDIUM ANGLE OUTDOOR FLOOD**

Complete with 1000 watt General Service Lamp, domed heat-resisting glass, bench base or flange plate stand.

8/6 each

"Chromoid" Colour Mediums for above. 3/9 each

PATTERN 46A 100 WATT FOCUSING MEDIUM ANGLE OUTDOOR FLOOD

As above, but to take Class B.I 1000 watt Projector Lamp.

8/6 each

PATTERN 47 SQUARE WIDE ANGLE OUTDOOR FLOOD

Complete with heat-resisting front glass and 500 watt General Service Lamp.

6/6 each

Ditto, but complete with 1000 watt General Service Lamp.

7/6 each

"Chromoid" Colour Medium for above.

3/9 each

PATTERN 48 1000 WATT WIDE ANGLE SQUARE OUTDOOR FLOOD

Complete with heat-resisting front glass and 1000 watt General Service Lamp.

8/6 each

"Chromoid" Colour Medium for above.

3/9 each

PATTERN 50B OUTDOOR PAGEANT LANTERN, FOCUSING NARROW ANGLE

Supplied with heavy bench base or flange plate stand, heat-resisting front glass, with 1000 watt Class B.I Projector Lamp.

9/6 each

Ditto, but with Class A.I Projector Lamp.

10/6 each

ORCHESTRA STANDS

Standard Pattern, complete with 15 ft. lead and plug connectors.

1/6 each

Ditto, but complete with Lamp.

2/- each

FAIRYLAND STRIPLITE

Holders at various centres, on cab-tyre flex, complete with Coloured Lamp.

6d. per holder

The above prices are based on single units. Special inclusive quotations for quantities will be furnished on application.

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EXPORT PACKING PARTICULARS

As a convenience to Customers, the approximate weights of some of the more representative types of Strand Lanterns packed for export are set out below.

1	Universal Stage Focussing Lantern, Pattern No. 23A. Gross 0-1-20 3½ cubic feet f.o.b. London
4	Ditto. Gross 1-2-0 12 cubic feet f.o.b. London
1	Sunray Triple Flood (less Stand), 500 watt size. Gross 0-3-14 16 cubic feet f.o.b. London
1	Stand for above. Gross 0-1-0 1 cubic foot f.o.b. London
2	Sunray Triple Floods (less Stand), 500 watt size. Gross 1-3-0 17 cubic feet f.o.b. London
2	Stands for above. Gross 0-1-20 2 cubic feet f.o.b. London
Note.—Stands to be dismantled.	
2	Sunray Wing Floods with Reflectors, Pattern Nos. 49, 49A, and 49B. Gross 0-3-0 14 cubic feet f.o.b. London
More than two per case is not advisable.	
1	Arena Flood, Pattern No. 35. Gross 0-1-14 7 cubic feet f.o.b. London
4	Ditto. Gross 1-0-10 17 cubic feet f.o.b. London
2	Pattern No. 32 Baby Sunrays. Gross 0-1-10 2½ cubic feet f.o.b. London
4	Ditto. Gross 0-3-0 4 cubic feet f.o.b. London
2	Sunray Lanterns, Pattern Nos. 30 and 60. Gross 0-2-0 6 cubic feet f.o.b. London
4	Ditto. Gross 0-3-14 10 cubic feet f.o.b. London
1	Pattern 44, 500 watt Spotlight. Gross 0-1-14 3 cubic feet f.o.b. London
2	Ditto. Gross 0-3-0 4½ cubic feet f.o.b. London
1	Pattern 43B or 51, Optical Effects Lantern. Gross 0-2-14 4 cubic feet f.o.b. London

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EXPORT PACKING PARTICULARS—continued

2	Pattern 43B or 51, Optical Effects Lantern. Gross 1-1-0 7 cubic feet f.o.b. London
1	Remote Colour Changing Spotlight, Pattern 43A. Gross 1-1-0 $6\frac{1}{2}$ cubic feet f.o.b. London More than one per case is not advisable.
1	Pattern No. 45, Spotlight. Gross 0-1-14 2 cubic feet f.o.b. London
2	Ditto. Gross 0-2-0 4 cubic feet f.o.b. London Stage Batten, B or C type, complete length 12 ft. Gross 2-0-0 28 cubic feet f.o.b. London
1	Set of 24 Glass Reflectors for 12 ft Batten. Gross 0-3-0 5 cubic feet f.o.b. London
1	Handy Hoist and— 3 1-way Pulleys 1 3-way Pulley 100 ft. $\frac{1}{4}$ in. Dia. Steel Rope 1 Set of Suspensions 1 Set of Chain Bridles Gross 2-0-0 4 cubic feet f.o.b. London
1	Stage Footlight, B or C type, length 12 ft. (less glass). Gross 1-2-0 15 cubic feet f.o.b. London
1	Set of 24 Glass Reflectors for above. Gross 0-2-0 4 cubic feet f.o.b. London
1	Mirror Ball complete (medium size 12 in. diam.). Gross 0-1-0 $3\frac{1}{2}$ cubic feet f.o.b. London
1	Ditto (large size 16 in. diam.). Gross 0-1-14 6 cubic feet f.o.b. London
1	Optical Effects Lantern, Pattern No. 42. Gross 0-3-14 5 cubic feet f.o.b. London
1	Optical Disc Effect in Aluminium Case (Circular Pattern, Clouds, etc.). Gross 0-1-14 $2\frac{1}{2}$ cubic feet f.o.b. London
3	Ditto. Gross 0-3-0 $6\frac{1}{2}$ cubic feet f.o.b. London
1	Optical Effect in Wood Case (Rectangular Pattern, Waves, etc.). Gross 0-1-14 2 cubic feet f.o.b. London
6	Ditto. Gross 0-3-14 $7\frac{1}{2}$ cubic feet f.o.b. London
1	Outdoor Flood, Pattern No. 38. Gross 0-2-0 5 cubic feet f.o.b. London
2	Ditto. Gross 0-3-0 9 cubic feet f.o.b. London

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GENERAL SALE CONDITIONS

PRICES.—The quoted prices in this catalogue are based on those prevailing at time of going to press and are subject to market fluctuations.

No engagement can be guaranteed based on the prices quoted herein, but every endeavour will be made to execute orders subject to the provisions of the foregoing paragraph and to normal conditions prevailing both as regards labour and the supply of materials.

ILLUSTRATIONS.—The illustrations in this catalogue are reproduced from actual photographs of the apparatus, but from time to time the designs may be subject to alterations and improvements as the outcome of further research.

Technical data, such as light distribution curves, are drawn up under laboratory conditions, and are for the purpose of comparative reference between one lantern and another, and the Company cannot guarantee that these will be absolutely correct under working conditions.

Weights and measurements are approximate only.

DELIVERY.—Goods are well packed and despatched—Carriage Forward. No responsibility is accepted by this Company for damage in transit; any such damage should be reported and claims sent to carriers without delay.

Apparatus for which prices are quoted in this catalogue, with the exception of Footlights, Battens and Switchboards, are delivered free Great Britain, per GOODS TRAIN, for orders of £5 nett or over. Gelatines will be despatched post free on orders for one dozen sheets or over.

If goods required urgently are despatched by Passenger Train the extra cost will be charged.

Cases and packing charged at cost, and credited in full if returned, carriage paid, within seven days.

LAMP SUPPLIES.—All bulb electric lamps are supplied without engagement or guarantee. Claims for premature failure are passed on to the manufacturers of the lamps in question, who will determine whether credit will be allowed.

ORDERS.—In the customers' own interest, all verbal orders should be confirmed in writing, and such orders plainly marked "Confirmation."

GENERAL HIRE CONDITIONS

APPARATUS.—While every endeavour will be made to supply lanterns described in this catalogue, abnormal demands on stocks held may render it necessary to substitute other designs. All apparatus remains the absolute property of this Company, the Hirer undertaking to return the said apparatus to the Company's Stores in good order and condition.

LAMPS.—The Company undertakes to maintain lamps in the case of electrical failure under normal working conditions, but the Hirer must accept full responsibility for mechanical damage.

DELIVERY.—All apparatus is delivered free in London's Theatre Land, which is defined as being within a circle of two miles radius of Leicester Square.

Apparatus delivered outside this area is charged at cost. All apparatus is suitably packed, where necessary. Such packing must be used by Hirer when returning apparatus.

No responsibility is accepted by this Company for damage in transit; any such damage should be reported, and claims sent to Carriers without delay.

ORDERS.—All orders for hire of apparatus *must* be confirmed in writing.

TERMS OF PAYMENT

Ledger Accounts will be opened upon satisfactory references being furnished.

Accounts are payable one month from date of invoice. Cheques, Postal Orders, and Money Orders to be made payable to The Strand Electric & Engineering Co., Ltd., and crossed "Midland Bank, Ltd." All hire charges are STRICTLY NETT, and are DUE and PAYABLE WEEKLY.

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AND ENGINEERING CO., LTD.

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Spotlite, Rand, London.

FLORAL STREET, COVENT GARDEN, W.C.2

INDEX

		Page Nos.
A		
Acting Area Flood		24
Adjustable Barrel Clamp		30
Arc Carbons		106
Arc, Effects	56 & 57	
Arc, Front of House	41, 42, 43 & 44	
Arc Lamp		100
Arc Resistances	45, 46 & 47	
Arc, Stage		40
Arena Flood		26
Asbestos Covered Cable		18
Asbestos Safety Border		17
Attachment, Spotting	30 & 31	
Auditorium Colour Lighting	87 & 88	
Aurora borealis Effect		58
B		
" Baby " Mirror Spot		38
" Baby " Pageant Lantern		38
" Baby " Spotlight	29 & 30	
" Baby " Sunray Flood		96
Ball, Mirror		39
Batten, Cyclorama		52
Batten, Magazine	14 & 15	
Batten, Open Type		18
Batten, Spot		15
" Batten Spotlight "		32
Batten Suspensions	16 & 17	
Bench Base		101
Blowers		61
Boards, Plug		67
Boards, Switch and Dimmer	77, 78 & 79	
Boards, Switch and Dimmer, Portable		76
Boxes, Dip		66
Brackets, Knuckle Arm		101
C		
Cabaret Spot		31
Cable, Multicore		18
Cable, Stage Flex		66
Cable, Workshop Flex		66
Carbons, Arc Lamp		106
Cargo Flex		66
Chokes for Osira Lamp		63
" Chromoid "		98
" Chromolux " Colour Selector	81, 82 & 83	
Circle Front Spots	33, 34 & 36	
Clamps, Barrel, " L " and Adjustable		30
Clip Plug		65
Cloud Effect		58
Clutch, Magnetic	80 & 89	
Colour Mediums, Chromoid		98
Colour Mediums, Gelatine		98
Colour Frames		99
Colour Varnish or Lacquer		99
Colour Wheels		39
Complimentary Colours (Samoiloff Effect)		60
Condenser Lenses		102
Conditions, Sale and Hire		
Connection Boxes, Batten		14
Connection Boxes, Footlight		13
Connector Plugs		65
Console, Light	84 & 85	
Control Panel, Arc		86
Cove Lighting		88
Cue Board		86
Cyclorama Flood	50 & 51	
Cyclorama Ground Row		52
D		
Diaphragm, Iris		39
Dimmers, Automatic		89
Dimmer Control Boards, Portable		76
Dimmer Control Boards, Remote	80, 81, 82, 83, 84 & 85	
Dimmers, Liquid		75
Dimmers, Metal	68, 69, 70, 71, 72, 73 & 74	
Dimmers, Reactance		75
Dips, Stage		66
Direction Signs		109
Disappearing Footlight		13
Discharge Lamp		63
Domino Plugs		65
E		
Effects, Attachments		58
Effects, Lanterns	55, 56 & 57	
Effects, Maroons, Smoke, etc.		62
Effects, Sound		61
Element Box for Smoke Powder		62
Element Type Dimmers		72
Exit Signs		109
Export Packing Details	118 & 119	
Exterior Floods	91, 92, 93, 94 & 95	
F		
Fairyland Striplite		117
Filters, Colour		98
Filters, Ultra Violet		60
Finger Flashes		62
Flame Effect (Optical)		58
Flange Plate Stand		101
Flash Box		62
Flash Powder		62
Flicker Wheel		39
Floats	12 & 13	
Flood Batten		15
Flood Lanterns, Acting Area		24
Flood Lanterns, Batten		20
Flood Lanterns, Cyclorama	50 & 51	
Flood Lanterns, Hot Cathode		63
Flood Lanterns, Outdoor	91, 92, 93, 94 & 95	
Flood Lanterns, Photographic		97
Flood Lanterns, Shop Window		96
Flood Lanterns, U.V.		63
Flood Lanterns, Vertical		25

	Page Nos.
Flood Lanterns, Wing	21, 23 & 27
Floor Plugs or Dips	66
Focus Flood	34
Focus Lanterns	29, 30, 31, 32, 33, 34 & 35
Focus of Lenses	59
Footlight, Disappearing	13
Footlight, Magazine	12
Footlight, Open Type	18
Fountains, Illuminated	63
Frames, Colour Medium	99
Front of House Arc	41, 42, 43 & 44
Front of House Colour Lighting	87
Frosts, "Chromoid"	98
Frosts, Gelatine	98
Frosts, Glass	102

G

Gelatine	98
Glasses, Coloured	95
Glasses, Diffusing	102
Glasses, Spare Fronts for Outdoor Floods	102
Grand Master Cross Control Boards	77, 78 & 79
Green Fire	62
Grid Pulleys	17
Ground Rows	52

H

Heat Resisting Colour Mediums, "Chromoid"	98
Heat Resisting Lenses	102
Heavy Bench Base or Cast Base	101
Heavy Telescopic Stand	101
Hire Charges	110, 111, 112, 113, 114, 115, 116 & 117

I

Interlocking Dimmer Boards	76
Invisible Green Ultra Violet Dope or Make-up	60
Iris Diaphragm	39

J

Jazz Colour Optical Effect	58
--------------------------------------	----

K

Kalenite Plugs	65
Knuckle Arm Bracket	101

L

"L" Clamp, Barrel	30
Lamps, Cinema Studio	104
Lamps, Discharge	105
Lamps, General Service	105
Lamps, Projector	103 & 104
Lamp Lacquer or Varnish	99
Lanterns, Arc	40 & 41
Lanterns, Flood	20, 21, 22, 23, 24, 25, 26 & 27
Lanterns, Front of House	41, 42, 43 & 44
Lanterns, Optical Effect	55, 56 & 57
Lanterns, Outdoor	91, 92, 93, 94 & 95
Lanterns, Spotlight	36 & 37
Lenses	102

Page Nos.

Lift Footlight	13
Light Console	84 & 85
Lighting Cornice or Cove	88
Lightning Lantern	61
Line, Steel Wire	17
Liquid Dimmers	75
Low Voltage Spot	38
Lycopodium Powder	62

M

Magazine Cornice Lighting	88
Magnetic Clutch	80, 81, 82, 83, 84, 85 & 89
Magnetic Colour Change Spot	33
Make-up, Samoiloff	60
Make-up, Invisible Green	60
Maroons	62
Medical Lamps	64
Mediums, Colour	98
Mercury Discharge Lamp	63
Mercury Vapour Lamp	60
Millboard Colour Frames	99
Mirror Ball	39
Mirror Spot, 1000 w.	36
Mirror Spot, "Baby"	38
Model Theatre Equipment	64
Motor Driven Dimmers, Automatic	89
Multicore Cable	18

N

Neon Signs	107 & 108
Non-flam. Colour Medium	98

O

Objective Lens Units	59
Open Type Batten	18
Open Type Footlight	18
Operating Box Equipment	86
Optical Effects Discs	58
Optical Effects Projector, Arc Type	56 & 57
Optical Effects Projector, 1000w. Lamp Type	55
Orchestra Stands	100
"Osira" Discharge Lamp	105
Outdoor Flood Lanterns	91, 92, 93, 94 & 95
Outdoor Lacquer	99
Overhead Floods	20, 24, 25 & 26

P

Packing Particulars, Export	118 & 119
Pageant Lantern	35 & 95
Panorama Lighting	50, 51 & 52
Photographic Lighting	97
Pilot Lighting, Batten	14
Pipe Clamps	30
Plano Convex Lens	102
Plug Boards	67
Plugs, Clip	65
Plugs, Stage	65
Portable Blowers	61
Portable Dimmer Boards	76
Pot or Liquid Dimmers	75
Prefocus Lamp Caps	32
Preset Colour Control	81, 82 & 83

	Page Nos.
Projector, Effects	55, 56 & 57
Projector Lamps	103 & 104
Projection Room Control	86

R

Rack and Pinion Lens Mounts	59
Rainbow Wheel	39
Rain Effect, Optical	58
Reactance Dimmers	75
Red Fire	62
Reflectors, Mirror	102
Reflectors, "Sunray"	19 & 102
Remote Colour Change Spot	33
Remote Control Dimmer Boards	80, 81, 82, 83, 84 & 85
Resistances, Arc.	45, 46, 47 & 48
Resistances, Variable	68, 69, 70, 71, 72, 73 & 74
Revolving Footlight	13
Rows, Ground	52

S

Safety Border, Asbestos	17
Safety Chain	30
Salts, Dimmer	75
Samoiloff Effect	60
Sciopticon Lenses	58
Shop Window Lighting	96
Signal Boards	86
Signs	107, 108 & 109
Slide Carrier	58
Slides, Effects	58
Slider Dimmers	68, 69 & 70
Smoke Effects, Chemical	62
Snow Effects, Optical.	58
Sockets, Plug	65
Sound Effects	61
Spotlight Accessories.	39
Spotting Attachment	30, 31 & 32
Spot Battens	15
Spotlights, Arc Lamp Type	40, 41, 42, 43 & 44
Spotlights, Projector Lamp Type	29, 30, 31, 32, 33, 34, 35, 36, 37 & 38
Spotlights, Outdoor	95
Stage Flex	66
Stands, Orchestra	100
Stands, Telescopic	101
Steel Wire Line	17
Stelmar Spot, Arc Lamp Type	44

Page Nos.

Stelmar Spot, Projector Lamp Type	37
Storm Cloud, Optical Effect	58
Sunray Reflectors	19 & 102
Sunset Dimmers, Coil Type	73
Sunset Dimmers, Element Type	72
Sunset Dimmers, Plate Type	71
Switch and Dimmer Boards	76, 77, 78 & 79
Switch and Plug Boards	67
Swivel Arm Bracket	101

T

Tails, Batten Connecting	18
Teak Dimmer Boards	76
Technical Data and General Information	19, 22, 40, 49, 54 & 90
Telescopic Stands	101
Three Draw Lens Front	59
Tracker Wire	75
Transformer 30 volt 30 amp.	37
Transformation Powder	62
Traps, Stage	66
Trigger Lightning	61
Triple Floods	27
Tripod Stand	101
Tubular Dimmers	68 & 69
Turntable Fronts	58
"Two by One" Lamps	64

U

Ultra Violet Ray Effect	60
-----------------------------------	----

V

Varnish, Lamp	99
Violet Ray Effect (Ultra)	60

W

Wall Connection Boxes for Battens	14
Wall Type Radial Dimmer	74
Wave Effect, Optical	58
Weights, Export	118 & 119
Wheel, Colour	39
White Flame Carbons	106
Winches, Batten	17
Wind Effect, Sound	61
Window, Shop Lighting	96
Wing Floods	21, 22, 23 & 27
Wire, Steel Line	17
Workshop Flex.	66
Worm Driven Dimmers	68 & 69

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