SPECIFICATION *(continued)*

Pedestal Stand.—This comprises a heavy casting with tripod legs, the centre column being telescopic. Height adjustment is provided by a series of holes in the centre column, locking being possible by means of a handwheel clamping screw. The Trunnion Fork also consists of heavy castings, with large diameter spigot revolving in the top portion of the centre column, locking in this case also being by means of clamping screw and hand wheel.

Sufficient clearance is provided between lamp housing and Trunnion to give a maximum downward tilt of 35° from the horizontal, the required angle being maintained by quadrant and clamping hand wheel. A box is mounted in a suitable position on the base of the pedestal, containing terminals for the Arc and subsidiary terminals for the blower and pilot lamp.

Iris Diaphragm and Barn Door Shutter.—The Diaphragm is of the 24-leaf type, giving a good circle reasonably free from "flats" in all positions. The Barn Door shutters are of the normal horizontal and vertical type, the lever controls for these and the Iris being placed close together for ease of operation.

Lens Focussing.—This is rack and pinion actuated, the drive being by ball crank handles fitted on both sides of the Lantern, allowing rapid adjustment between the extreme "flood" and "spot" positions.

Colour Media.—A magazine of five colour medium frames is mounted at the front end of the Lantern, being directly controlled by means of lever handles, these being fitted close to the Iris and Barn Door Shutters, and at the right or left of the Lantern as desired. The colour frames not in use are situated on the side of the Lantern remote from the operator. Colour runners are also provided at the front of the lantern for additional colour frames ($10\frac{3}{4}$ inches x $7\frac{1}{2}$ inches) if required.

Heat absorbing heat resisting glass.—This is fitted to the lamphouse to protect the shutters and colours from excessive heat in place of the old arrangement of an electrically operated blower.

Arc Movement.—Constructed to carry 100-amps., the carbons being mounted horizontally. The rear carbon is carried in interchangeable collets of suitable size for A.C. or D.C. Carbons as required, adequate contact being provided for by screwed and knurled sleeves. The front carbon is held in position by a screwed clamp.

Simultaneous drive to both carbon heads along the horizontal Centre Line of the lamp, is by means of worm shafts, it being possible to disengage the drive nuts (**P**. Fig. 2) to both front and rear carbon heads, thus facilitating rapid replacement of carbons.

A clutch device is fitted to enable either carbon to be moved independently. The rear carbon head is provided with vertical and horizontal adjustment, the mirror having axial adjustment in the vertical and horizontal planes. The latter can also be traversed horizontally for focussing purposes.

By means of a "Positioner" the arc gap can be set at the correct focal distance from the mirror before "striking."

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