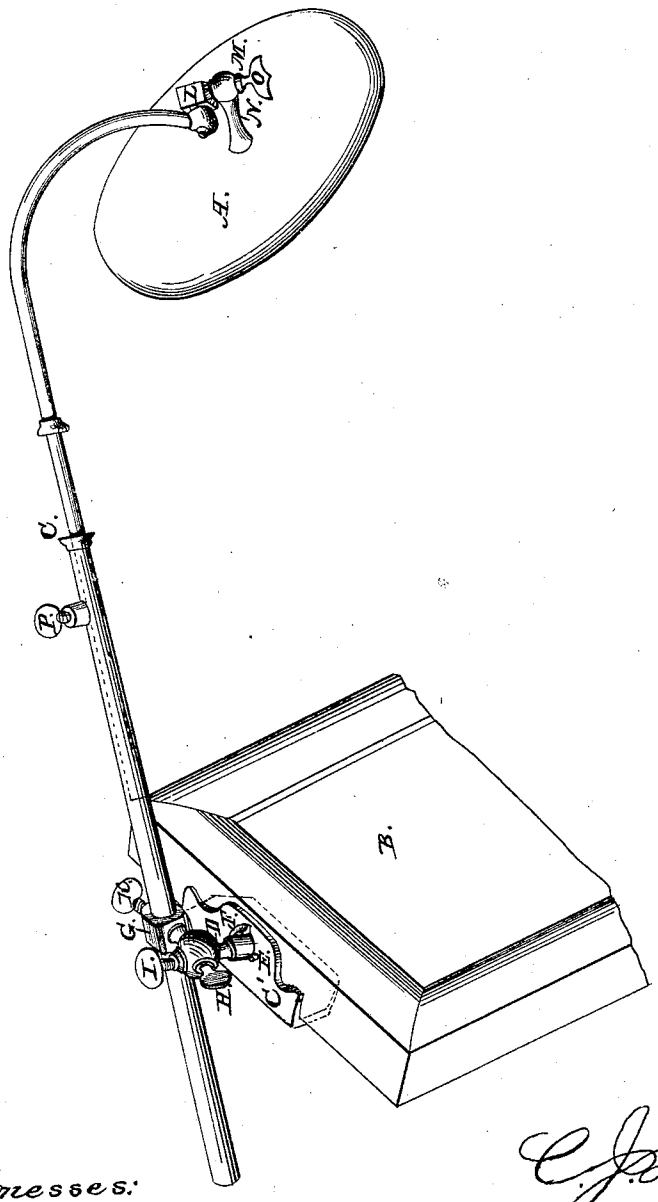
C. J. HARTMANN.

LOOKING GLASS ATTACHMENT.

No. 90,746. Patented June 1, 1869.



Witnesses:

Stinchman.

Wm. F. Clark.

C. J. Hartmann.

per: Munn & Co

United States Patent Office.

CHARLES J. HARTMANN, OF LONDON, ENGLAND.

Letters Patent No. 90,746, *dated June* 1, 1869.

IMPROVED LOOKING-GLASS ATTACHMENT.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, CHARLES J. HARTMANN, of the city of London, England, have invented a new and improved Reflecting-Attachment for Mirrors; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification.

This invention relates to improvements in reflecting-attachments for mirrors; and

It consists in connecting the extension-tubes, employed for suspending a reflector for throwing the image of the back part of the head, or other part of the person, upon the mirror, to the top of the said mirror, by a universally-jointed connection; also, in connecting the reflectors to the said tubes, by a similarly-jointed connection, whereby the said reflector may be readily adjusted to any required position, or be turned around to one side, out of the way, when not required for use, all as hereinafter more fully specified.

The drawing represents a perspective view of a reflector-attachment, arranged according to my improvement, and applied to a mirror, shown in red.

A represents a reflector, suspended in front of a mirror, B, by extension-tubes C, supported by a bracket, C', adapted for ready attachment or detachment to the top of a mirror-frame.

My invention consists in the adjustable arrangement of the connections, as follows:

The stud D, rising up from the bracket C', is made to turn on its vertical axis, in its connection with the bracket, so as to swing the reflectors directly in front of the mirror, or to the side thereof at the right.

A stud, E, on the bracket, and projection, F, on the stud D, prevent the swinging of the reflector to the left, further than required for use.

For swinging the supporting-tubes vertically, a horizontal arm, G, is journalled in the stud D, so as to oscillate on its axis, and provided with set-screws H I, for tightening and holding it at any required point.

The supporting-tube passes through a hole in this arm, by which the reflector may be adjusted nearer to or further from the glass, and a set-screw, K, secures the tube at any point.

At the outer end of the extension-tube, the reflector is similarly supported, the stud L being capable of oscillation in its connection with the end of the tube, and this stud bears, at right angles to its axis, another stud, M, whereon the stem N of the reflector oscillates.

These studs are also, if required, provided with set-screws O, for keeping the joints tight and settling them when required.

I also employ a set-screw, P, for securing the extension-tubes, as required.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. The bracket C', provided with the stud D, limited in movement upon its lateral axis by means of the stud E and projection F, and adapted to support the extension-tubes C, by the jointed connection which is capable of oscillation or adjustment horizontally and vertically, as herein shown and described for the purpose specified.

2. The reflector A, supported upon the extension-tubes C, by means of the oscillating adjustable stud L, the stud M, and oscillating stud N, all constructed and arranged as described, for the purpose specified.

The above specification of my invention signed by me, this 5th day of April, 1869.

CHAS. J. HARTMANN.

Witnesses:

FRANK BLOCKLEY,

ALEX. F. ROBERTS.