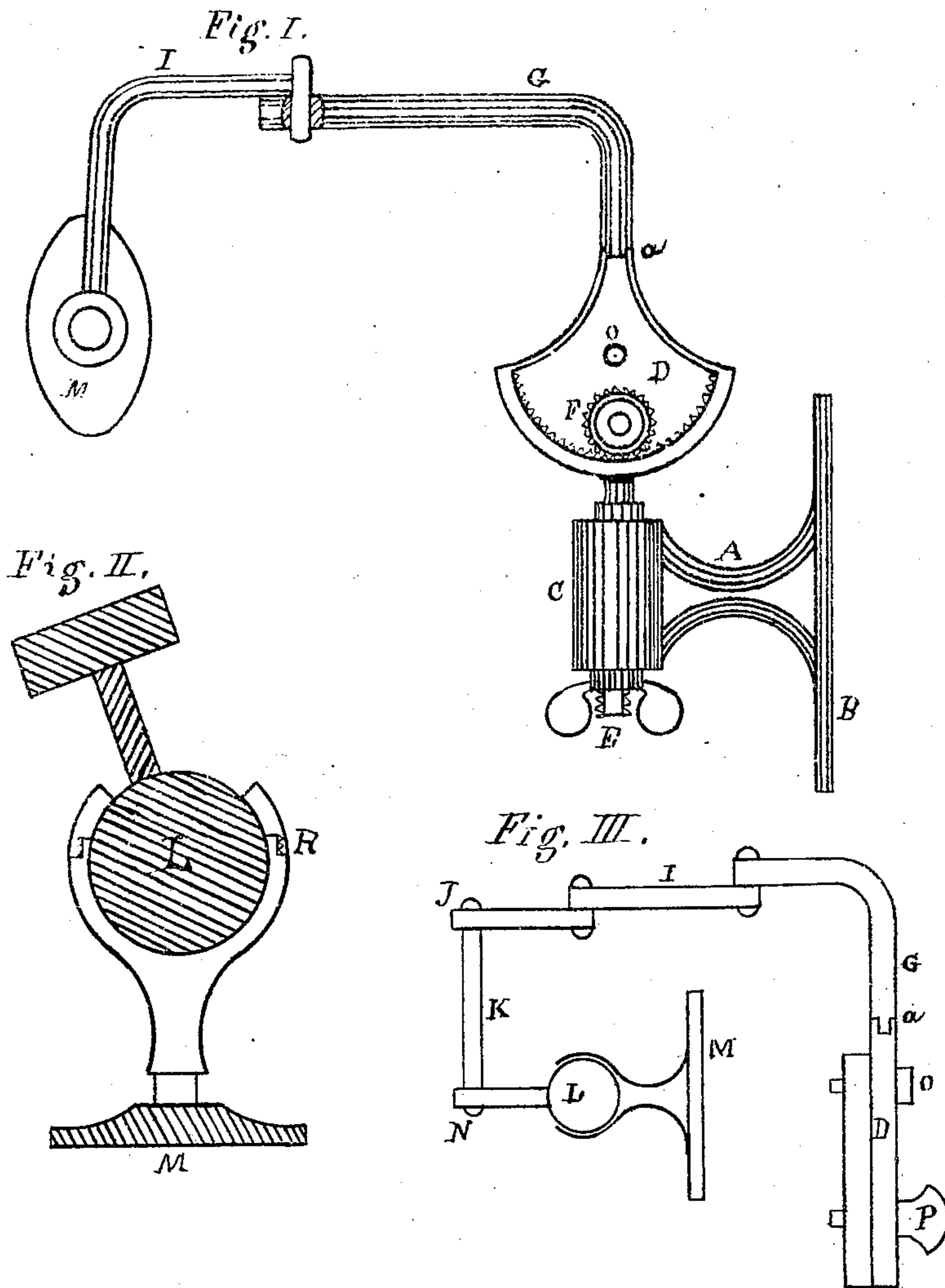


H. W. LESLIE.

## Improvement in Mirror-Reflectors.

No. 128,967.

Patented July 16, 1872.



Witnesses

Charles Rogers  
D. C. Brown

Inventor

Herman W. Leslie  
by his attorney  
C. Rogers

# UNITED STATES PATENT OFFICE.

HERMAN W. LESLIE, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF OF HIS  
RIGHT TO JOHN FREDERICK REEVE, OF JERSEY CITY, NEW JERSEY.

## IMPROVEMENT IN MIRROR-REFLECTORS.

Specification forming part of Letters Patent No. 128,967, dated July 16, 1872.

*To all whom it may concern:*

Be it known that I, HERMAN W. LESLIE, of the city, county, and State of New York, have invented new and useful Improvements in Mirror-Reflectors; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification, in which—

Figure I represents a side elevation. Fig. II represents a sectional view of the universal joint. Fig. 3 is an end view of Fig. I.

The object of my invention is to make a mirror-reflector, so that it can be brought in any desired position by means of joints, so combined and arranged that the reflector may be brought in any desired position with mirror. The nature of my invention consists in the combination and arrangement of a globe-joint with a pivoted joint. It also consists in the peculiar and novel construction and arrangement of the attachment—a joint which is held in any desired position by means of ratchets and thumb-screw.

Letters of like name and kind indicate like parts in each of the figures.

A represents a bracket, which I usually make of brass, of any fancy or ornamental design, and of suitable dimensions to fully support the several arms and joints, as also the reflectors. B represents the base of the bracket, where it is secured to the wall. At the end of the bracket is provided a socket or cylinder, C, which receives the stem of the ratchet-joint D. Underneath this cylinder C is a thumb-screw, E, which holds the stem or shank of the ratchet-joint rigidly in its position. The ratchet-joint D is made in the form of a quadrant, with the teeth on the inner periphery, with a pinion, F, provided with teeth, which fit and work in

corresponding teeth in the quadrant. At a is secured to the ratchet or quadrant, by means of a screw-thread, an arm in the form of an elbow, as shown at G. At H is shown another joint of the ordinary kind, which connects another arm, I, and in this manner any number of arms may be connected. At J is connected another arm, K, which extends downward to a convenient distance to where another joint is made, so as to be universal in its operation, as clearly shown at L. At the outer end of this joint L is the reflector M. At N is a revolving joint, which allows the reflector to revolve around in different directions. The arm G, with all the connecting-arms, turns on a pivot-bolt, g, so as to be placed in any desired position, and secured in such position by means of the thumb-screw P.

The advantage of my invention will be readily seen, from the fact that the reflector can be so readily placed in any desired position.

It will be observed that the globe-joint may be tightened by means of a screw, shown at R, Fig. II.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In combination with the arm G of an adjustable toilet-glass, the quadrant-rack D and the adjusting-pinion F, substantially as shown and described.

2. The adjustable toilet-glass frame, composed of the arms I K G, with the joint L for adjustment as to plane, and the joints N and segment D and pinion F for adjustment as to position, as shown and described.

HERMAN W. LESLIE.

Witnesses:

WM. F. MCNAMARA,  
CHARLES ROGERS.