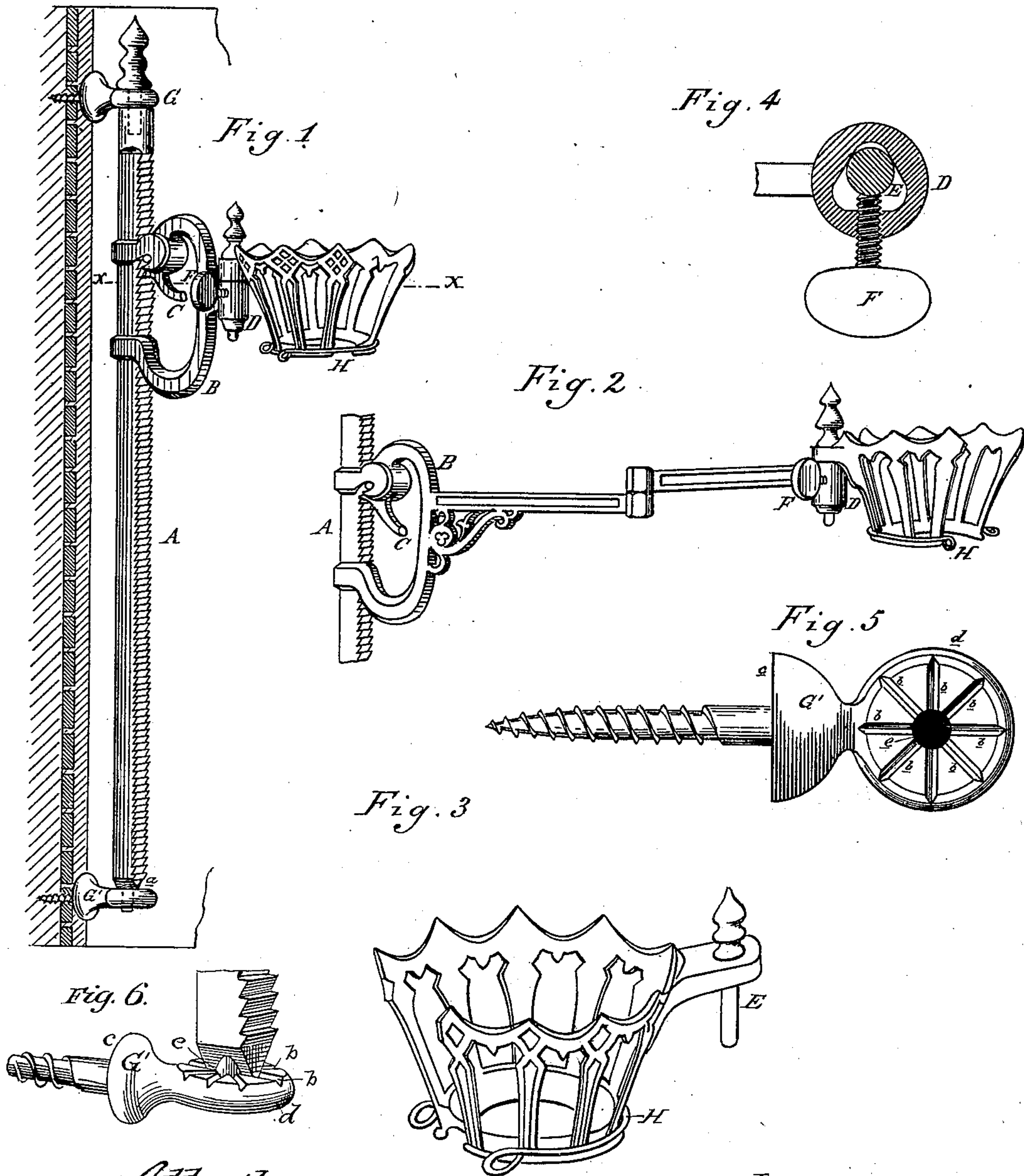


H. R. MILLS.
Lamp-Bracket.

No. 215,955.

Patented May 27, 1879.



Attest:

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Inventor:

H. R. Mills.

By Atty

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UNITED STATES PATENT OFFICE.

HIRAM R. MILLS, OF PORT HURON, MICHIGAN.

IMPROVEMENT IN LAMP-BRACKETS.

Specification forming part of Letters Patent No. **215,955**, dated May 27, 1879; application filed September 18, 1878.

To all whom it may concern:

Be it known that I, HIRAM R. MILLS, of Port Huron, in the county of St. Clair and State of Michigan, have invented an Improvement in Adjustable Lamp-Brackets, of which the following is a specification.

In the drawings, Figure 1 is a perspective view of my improved device with a swinging cup-bracket attached, the whole secured to a wall. Fig. 2 is a like view with a folding or extension arm attached to hold the cup. Fig. 3 is an enlarged and detached view of the lamp-cup and spring. Fig. 4 is a cross-section of the socket on the line *xx* in Fig. 1. Fig. 5 is a plan view of the upper side of the holding-screw by means of which the lower end of the vertical rack-bar is secured to the wall. Fig. 6 is a view, in perspective, of the lower end of the vertical rack-bar and the screw with flat channeled head for supporting the same.

In the accompanying drawings, which form a part of this specification, A represents a rack-bar, upon which is slipped the bracket B, which is provided with a pawl, C, pivoted thereto in such a manner that the lever end of the pawl will always hold the same in engagement with the rack. This bracket is provided with a socket, D, the opening through which is preferably triangular in shape, as shown in Fig. 4, to receive and securely hold varying sizes of cup-arms E. A thumb-screw, F, through the side of the socket fastens the cup-arm thereto.

The rack-bar is pivoted at top and bottom through the heads of holding-screws G G', in any convenient manner, so that said bar may have a rotary motion, and a loose pin passes through the upper holding-screws into the hollow end of the rack-bar, thereby facilitating the putting up and taking down of the bracket. The lower end of said bar above the pivotal point is beveled on both sides, as shown at *a*, to engage with the channels *b* in the upper face of the holding-screw G', to prevent an accidental rotary movement of the

rack-bar, which, by the weight of itself and the bracket and its attachments, is held in its engagements with the channels in the head of said screw, except when purposely lifted out of said engagement. This screw G' is provided with a flange, *c*, to govern the depth to which it may be driven, and terminates in a head, *d*, with a hole, *e*, through it to receive the end of the rack-bar, and the face of the head is provided with the channels *b*, hereinbefore described.

The lamp-cup is cut out on one side to allow the insertion into said cup of the bulb or chamber of a hand or stand lamp, the stem thereof passing through the cut outside. A slotted ring, H, turns around the lower end of the cup to hold the lamp therein.

I am aware that brackets have been patented having notched plates near the lower ends of their pivots, for holding the bracket-arms in any desired horizontal position, and therefore I do not pretend to be the first inventor of the same, broadly.

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

1. As a new article of manufacture, the screw G', having shoulder *c* and a flat head, *d*, provided with channels *b*, extending radially from a central hole, *e*, constructed substantially as described and shown.

2. The combination, with the vertically-adjustable lamp-bracket B, of the rack-bar A, carrying such bracket, the screw G, and loose pin for holding the upper end of the rack-bar, and the screw G', having channeled head for supporting the lower end of the rack-bar, substantially as described and shown.

3. The bracket B, provided with triangular opening and with a set-screw, in combination with a lamp-cup, a pawl, and a rack-bar, substantially as and for the purposes specified.

H. R. MILLS.

Witnesses:

A. BARTHEL,
H. S. SPRAGUE.