

J. W. BIRCH.
LAMP-BRACKETS.

No. 195,564.

Patented Sept. 25, 1877.

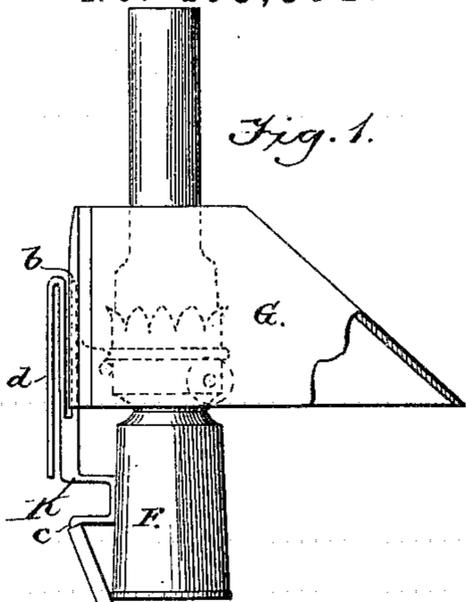


Fig. 1.

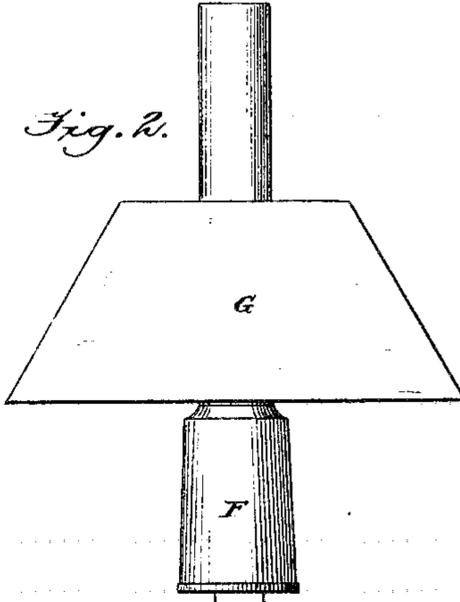


Fig. 2.

Fig. 4.

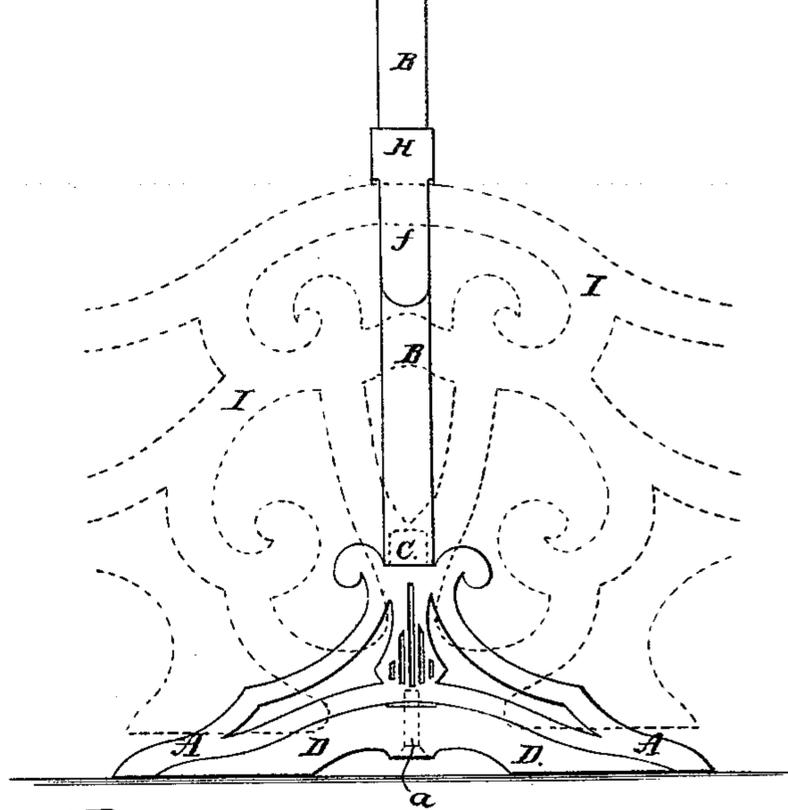
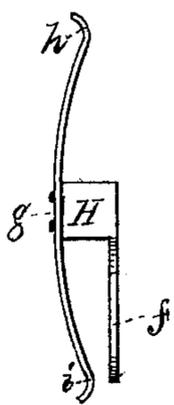


Fig. 3.

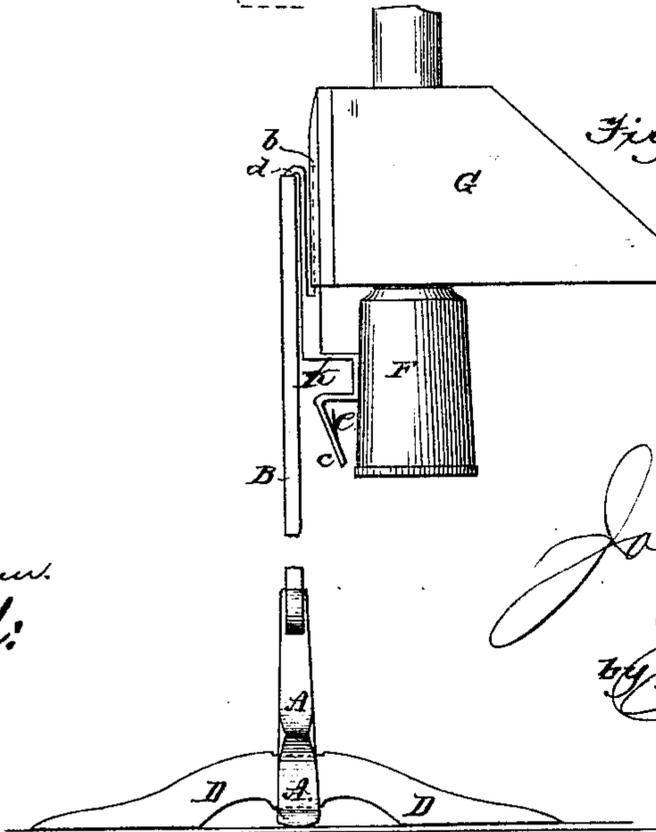
Witnesses;

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UNITED STATES PATENT OFFICE.

JOSEPH W. BIRCH, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF HIS
RIGHT TO ISAAC H. HOLMES, OF SAME PLACE.

IMPROVEMENT IN LAMP-BRACKETS.

Specification forming part of Letters Patent No. 195,564, dated September 25, 1877; application filed
August 20, 1877.

To all whom it may concern:

Be it known that I, JOSEPH W. BIRCH, of the city, county, and State of New York, have invented certain new and useful Improvements in Lamp-Brackets, of which invention the following is a specification:

In the drawings, which form an essential part of this specification, Figure 1 is a side elevation of an apparatus in which is fully embodied my invention. Fig. 2 is a front elevation of the same. Fig. 3 is also a side elevation, showing the apparatus as used for a library or student's lamp; and Fig. 4 is a detached view of the clasp.

The same letters of reference marked in the various figures of the drawings will locate and designate corresponding parts.

The object of this invention is to provide a light portable apparatus for temporary attachment to the music-racks of pianos, organs, melodeons, and other musical instruments of that class, which apparatus shall carry at its apex a suitable lamp and reflector so arranged that when the apparatus is applied to the music-rack the light is thrown directly upon the pages of music, the construction of the apparatus being such that it can be attached to any part of the music-rack, and its position changed at will. It is also provided with a base so arranged that it will stand upright, making the apparatus very useful for all the purposes desired in a student's or library lamp.

The base of the apparatus consists of an ornamental bifurcated arched body, A, which is permanent, and at its apex carries a flat or oval tube-post, B, of such length as may be required for the purpose. This tube B may be attached to the body A in any approved manner, as mechanical skill may dictate. It is shown as applied over a stud, C, (seen in dotted lines in Fig. 2,) being driven thereupon and soldered or pinned to make it permanent. Within the two arms of the body or base A is arranged an auxiliary arm, D, which is attached to the base A centrally by means of a screw, pin, or bolt, *a*, the arrangement being such that it may be swung to right angles with the position of the base A, in which position the two form four legs or feet, and thus give a solid immovable support for the apparatus

when it is in use as a student or table lamp. The normal position of this arm D is parallel with the base A, as shown plainly in Figs. 1 and 2.

F is the lamp, which is preferably made of metal, and may be of any approved form that is suited for the purpose. It has attached to its rear a small trifurcated bracket, formed as shown in Figs. 1 and 3, arm *b* thereof (seen in dotted lines) forming a tongue upon which the reflector G is supported, arm *c*, which is inclined as shown, forming a tongue by which to attach the lamp to the tube-post B when the apparatus is to be applied to the music-rack of an instrument, the third arm, D, forming a tongue by means of which to attach the lamp to the post B when the apparatus is to be used as a library or student's lamp. Arm or tongue *c* is provided with a spring, *e*, which serves to hold the tongue in the apex of the tube-post B firmly, and prevents the lamp from shaking. The tongues *b* and *d* may be likewise provided with similar springs, if so desired.

The reflector G has attached to its rear a socket corresponding to the tongue *b* of the bracket, over which it is applied when the apparatus is in use.

H is an adjustable sleeve-clasp, which is applied over the tube-post B, the office of which is, by means of the various attachments, to secure the apparatus to the music-rack I. The music-rack is shown in dotted lines in Figs. 1 and 2. It is made square in form, and large enough to readily slide upon the tube-post B. It has a depending arm in front, and at the rear a flat arched spring, *g*, is attached, said spring having two arms, *h* and *i*, arm *h* projecting above and arm *i* below the body H of the sleeve-clasp.

The position of the apparatus and the mode of application to the music-rack are plainly illustrated in Figs. 1 and 2. The base A of the apparatus resting upon the instrument directly in the rear of the music-rack I, the post B taking an inclined position conforming to the incline of the music-rack, the sliding clasp H is then slipped down, its depending arm *f* passing over the face of the music-rack. The sleeve H is thus pulled forward the width of the rack

I, which movement, of course, compresses the two arms of the spring *g* against the post B. This action serves to hold the arm *f* tightly to the face of the music-rack, and thus securing the apparatus in place.

When the apparatus is to be used as a student or table lamp the tongue *d* is used in attaching the lamp to the top of the tube-post B, which, of course, brings it to a right-angular position in relation to the tube-post B. The swinging arm D of the base is then placed at right angles with the base A, and the apparatus is ready for use as a table-lamp, as illustrated in Fig. 3.

Having thus fully described my invention, what I claim as new is—

1. In a lamp bracket or support, the combination of the fixed base A, carrying the supporting tube-post B, the sliding adjustable clasp H, and the trifurcated bracket K, having tongues *b* and *d* attached to the lamp F, and by means of which the reflector is supported and the lamp attached to the supporting tube-post B, the whole arranged and operating as and for the purposes substantially as herein shown and set forth.

2. In a lamp bracket or support, the combination of the fixed base A, having auxiliary swinging arm D, tube-post B, attached to base A, the sliding adjustable clasp H, and the trifurcated bracket K, having tongues *b* and *c* attached to the lamp F, and by means of which the reflector is supported and the lamp attached to the apex of the supporting-post B, the whole arranged and operating as and for the purposes substantially as herein shown and set forth.

3. The trifurcated bracket K, having arms or fingers *b*, *c*, and *d* attached to the lamp F, and operating as and for the purposes as herein shown and set forth.

4. The adjustable sliding clasp H, having arm *f* depending from its face, and arched spring *g*, having arms *h* and *i* attached to its rear, the whole arranged to slide upon the tube-post B, in the manner and for the purposes as herein shown and described.

JOSEPH W. BIRCH.

In presence of—
A. L. MUNSON,
E. G. WARD.