

H. C. & C. H. BURR.

Hammers.

No. 156,874.

Patented Nov. 17, 1874.

Fig. I.

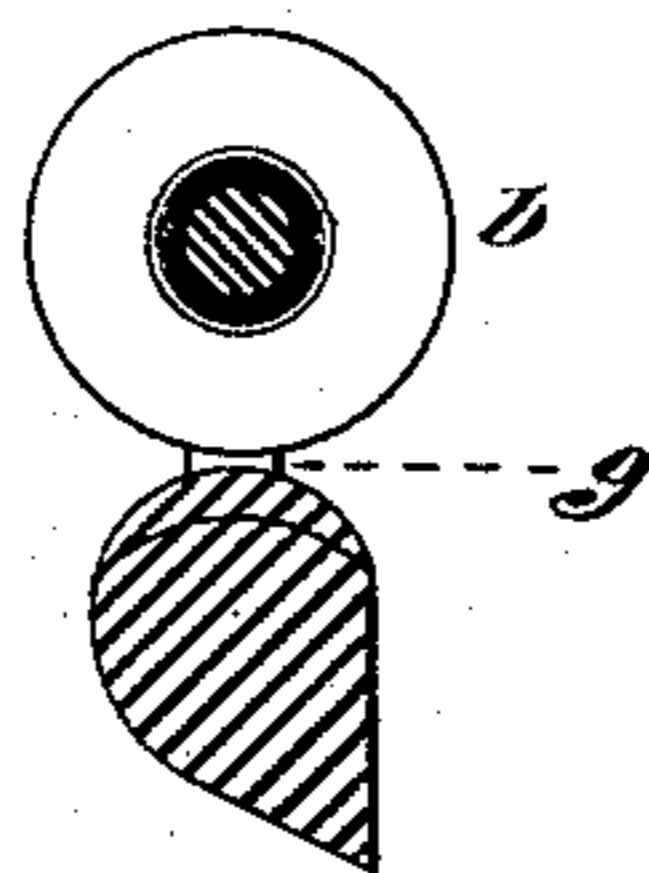
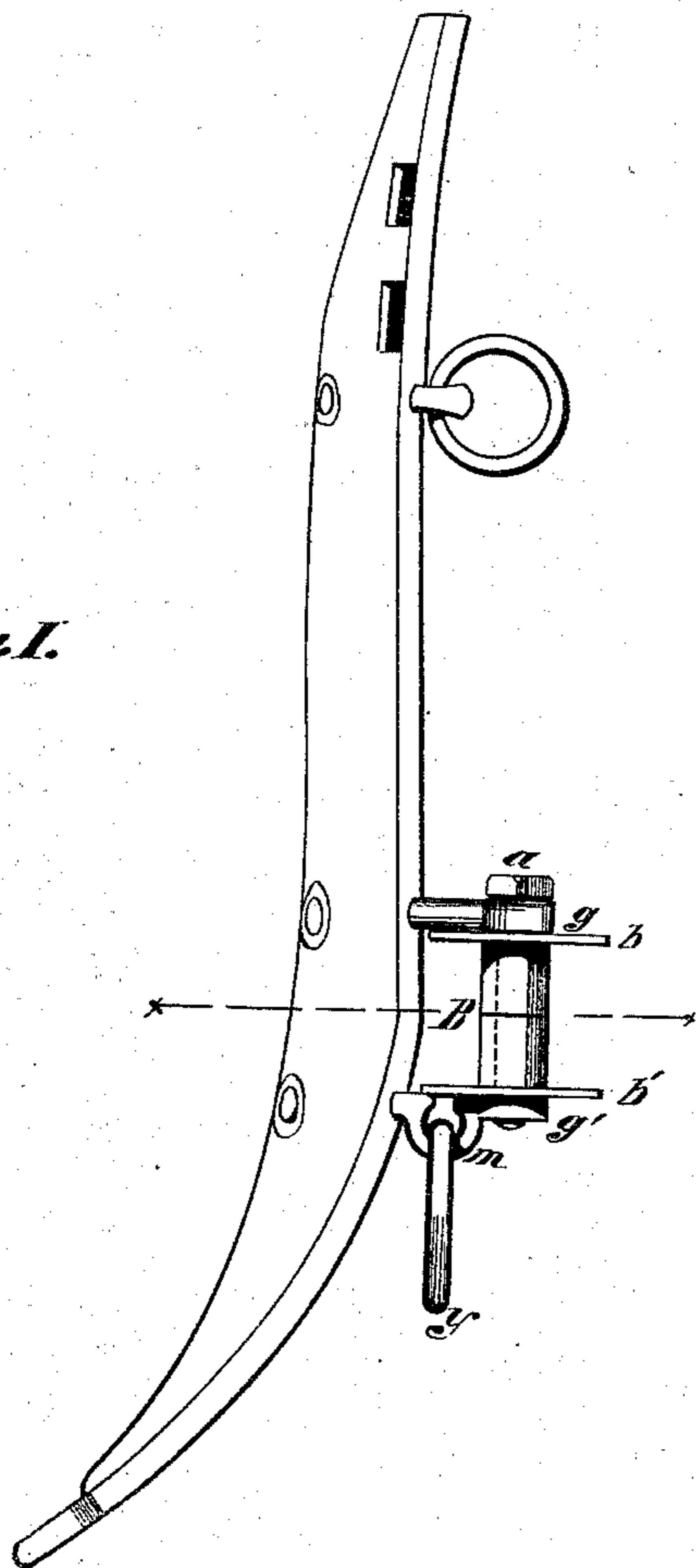


Fig II.

Witnesses
E. Dudley Chapin
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Henry C. Burr
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UNITED STATES PATENT OFFICE.

HENRY C. BURR AND CHARLES H. BURR, OF SPRINGFIELD, VERMONT.

IMPROVEMENT IN HAMES.

Specification forming part of Letters Patent No. **156,874**, dated November 17, 1874; application filed May 12, 1874.

To all whom it may concern:

Be it known that we, HENRY C. BURR and CHARLES H. BURR, both of Springfield, Vermont, have invented certain Improvements in Hames, of which the following is a specification:

The first part of our invention consists in the combination with and arrangement upon the bolt of a hame, of a loose sleeve having flanges next the posts between which the bolt extends. This sleeve is inclosed within the end of the trace and relieves the leather of the friction that would be incident to its contact with the bolt by itself moving freely on the bolt with any movement of the trace, to the great advantage of protecting the leather from wear and of presenting an anti-friction surface to the bolt, the flanges serving the purpose of preventing the sides of the trace, or any part of it, from coming in contact with the posts by inclosing and protecting it. Although the sleeve with its flanges may be made in one piece and so inclosed in the end of the trace, we prefer to form it in sections for the convenience of enabling the trace to be formed to leave a loop in its end for the reception of the sections when it is desired to attach the trace to the hame, as the sleeve with its flanges in one piece could only be conveniently inclosed by the trace at the time of its manufacture. The second part of our invention consists of the formation, in one of the posts, of a bosom in which to recess the bolt-strap ring, and that shall be closed by one of the flanges between the posts.

In the drawings, Figure I is a side view of a hame with our improvements, Fig. II being detail view.

The sleeve B, with its flanges *b b'*, presents the general form of a spool supported by and turning on the bolt *a*, extending between the posts *g g'*, and, for the reasons before mentioned, we form it in two pieces, leaving a flange attached to either section, and the trace inclos-

ing these sections clamps the spool tightly enough to confine all movement to that of the sleeve upon the bolt *a*, and the leather of the trace is free from the wear that would take place did it come in contact with the bolt *a*.

And it will be seen that the flanges *b b'* entirely prevent any portion of the leather of the trace from coming in contact with either post when the line of the draft inclines the trace from that of a right angle to the bolt *a'*, it being this contact of the leather against the post that, in the hame in common use, disfigures and wears out the trace.

The post *g'* we form to present the bosom *m* for the reception of the bolt-strap ring *y*, and it is immaterial whether the post itself is formed to nearly encircle the ring *y*, as shown in the drawing, or whether bent before entering the hame, to leave the hame itself to form one of the sides of the bosom recessing the ring *y*; but for strength we prefer to form the recess from the straight inner side of the post *g'* and have the flange *b'* extend past the mouth of the bosom and close it, to thus isolate the ring and prevent all possible interference with the trace, while to remove or replace the ring it is not necessary to disturb the posts, but only to remove the bolt and trace.

What we claim is—

1. In combination with the trace-bolt of a hame, the sleeve with its flanges, whether in one piece or sections, arranged and operating substantially in the manner and for the purpose set forth.

2. A bosom, *m*, formed by the post *g'* to receive the bolt-strap ring *y*, and closed by a flange of the sleeve B, upon the inside of the post, substantially as shown and described.

HENRY C. BURR.

CHAS. H. BURR.

Witnesses:

JEROME W. PIERCE,
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