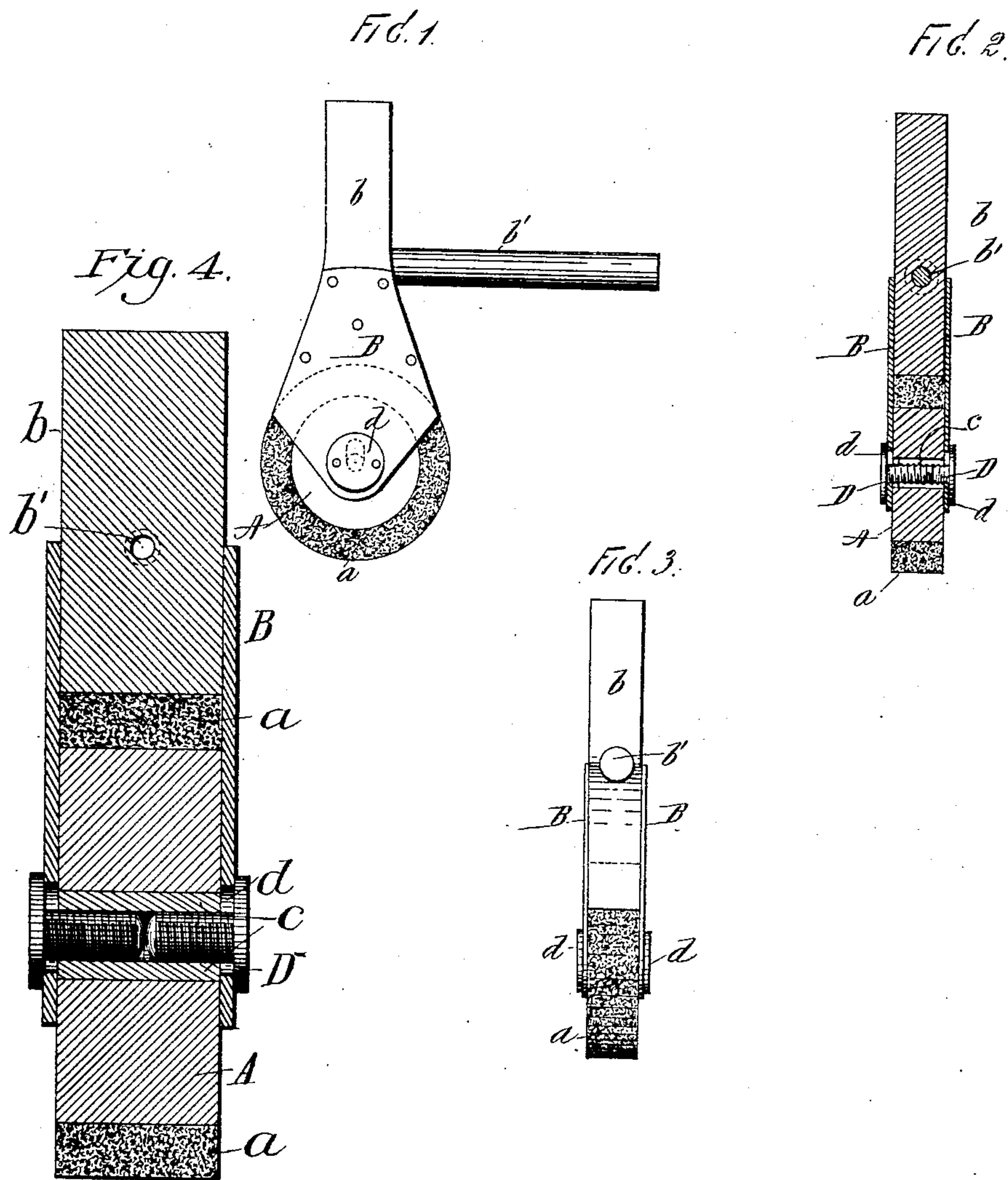


(No Model.)

E. SHERWOOD.
PIANO HAMMER.

No. 563,079.

Patented June 30, 1896.



WITNESSES:
John Buckler
L. M. Muller.

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UNITED STATES PATENT OFFICE.

EARL SHERWOOD, OF HONESDALE, PENNSYLVANIA, ASSIGNOR OF ONE-FOURTH TO GRANT W. LANE AND FREDERICK M. SPENCER, OF SAME PLACE.

PIANO-HAMMER.

SPECIFICATION forming part of Letters Patent No. 563,079, dated June 30, 1896.

Application filed June 21, 1895. Serial No. 553,536. (No model.)

To all whom it may concern:

Be it known that I, EARL SHERWOOD, a citizen of the United States, and a resident of Honesdale, county of Wayne, and State of Pennsylvania, have invented certain new and useful Improvements in Piano-Hammers, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar letters of reference indicate corresponding parts.

My invention relates to new and useful improvements in rotary adjustable piano-hammers, and its object is to provide a simple adjustment for a rotary hammer by means of which said hammer may be operated to remove a worn surface thereon from operative contact, so that a proper surface of the hammer may be in position at all times.

With these and other ends in view the invention contemplates a hammer comprising a felt-covered roller mounted in suitable bearings and provided with set-screws so arranged that said roller may be turned at any time to remove a worn surface of the felt from operative contact.

The invention consists also of certain details of construction, which will be fully pointed out hereinafter.

In the accompanying drawings, Figure 1 is a side elevation of my improved hammer. Fig. 2 is a vertical central sectional view, and Fig. 3 is a front elevation. Fig. 4 is a detail enlarged sectional view showing the sleeve *e* more clearly.

In the practice of my invention I employ a hammer comprising a roller *A*, having a covering *a* of felt or other suitable material. This roller is journaled in bearings in the side plates *B*, secured on the head-piece *b*, and this head-piece is arranged on a bar or rod *b'*, as clearly shown in Fig. 1. The side plates are provided with the elongated openings *b'* for a purpose hereinafter described.

The roller has a transverse opening *C*, and an interiorly-threaded sleeve *c* is arranged in said opening. After the roller has been arranged in place between the side plates, set-screws *D* are screwed into the sleeve until they contact with each other and they thereby

secure the said roller in place. The said set-screws are provided with enlarged heads *d*, arranged to cover the elongated openings *b'* in the side plates, and bear tightly against the side plates.

The set-screws are of such length that they will just meet when screwed into the sleeve as far as possible, and when so arranged the enlarged heads will bear tightly against the side plates and prevent the roller from turning.

My improvements are of the greatest importance for preserving the proper quality and force of the blow struck by the hammer. After the operative surface of the roller has been used for some time the felt thereon becomes hard and unyielding and the quality of the blow of said hammer is greatly diminished.

In using my improved rotary adjustable hammer the roller is turned a suitable distance whenever the operative surface of the felt covering becomes worn to bring into use a perfect operating-surface, and this may be accomplished, preferably, by grasping the two enlarged heads *d d* of the set-screws and working them around, which at the same time causes the roller to turn.

The elongated openings *b'* are provided so that the roller may assume its proper position in the side plates as the worn part passes beyond the lower portion of the head-piece. The roller has a bearing substantially against the head-piece, so that the hammer will strike a firm and solid blow, and when the worn portion of the covering passes this bearing the set-screws, which form the axle of the roller, may move upward in the elongated openings.

I am aware that changes in the form and proportion of parts and details of construction of my invention may be made without departing from the spirit or sacrificing the advantages thereof, and I therefore reserve the right to make all such changes as fairly fall within the scope of the invention.

Having fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A piano-hammer, comprising a head-piece, the side plates secured to said head-piece and having the elongated openings

therein, and the roller mounted in said openings and having a suitable surface, whereby the operative contact-surface of said roller may be changed and the character of the blow struck by the hammer preserved, substantially as described.

2. A piano-hammer, comprising a head-piece, the side plates secured thereto and having the elongated openings therein, a roller having a suitable operative peripheral surface, a sleeve fitted in a central opening in said roller, and the set-screws adapted to be screwed into said sleeve and having enlarged heads arranged to bear forcibly against the side plates, substantially as described.

3. A piano-hammer, comprising a head-piece, the side plates secured on said head-piece and having elongated openings therein, a roller having a central opening and a

peripheral operative surface, an interiorly-threaded sleeve fitted in the opening in the roller, and the set-screws adapted to be screwed tightly into said sleeve until the meeting ends thereof substantially contact and having enlarged heads arranged to bear forcibly against the side plates, whereby the roller may be turned by operating said enlarged heads to bring a perfect operative surface into operative position, substantially as described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 14th day of June, 1895.

EARL SHERWOOD.

Witnesses:

WM. H. HAM,
CHAS. A. McCARTY.