





# UNITED STATES PATENT OFFICE.

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## PIANO-HAMMER.

SPECIFICATION forming part of Letters Patent No. 675,525, dated June 4, 1901.

Application filed April 28, 1900. Serial No. 14,656. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES WM. PRESSLEY, a citizen of the United States of America, residing at Eufaula, in the county of Barbour and State of Alabama, have invented certain new and useful Improvements in Piano-Hammers, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to improvements in hammers for pianos, and more particularly to a socket or joint whereby the hammer-shanks are easily applied and adjustably secured to the hammer-stem.

In the ordinary construction of pianos the joint of the hammer-stem and hammer-shank is made rigid; and the hammer stem or shank is very often broken when being separated. The primary object of this invention is to obviate this disadvantage.

Another object of the invention is to provide a novel joint or socket whereby a new set of hammers can be applied to an old set of hammer-shank stems in a shorter time and with a less amount of labor than is ordinarily used.

A still further object of the invention is to provide novel means whereby the hammer-shank is adjustable in all directions.

Finally, the object of the invention is to provide a novel socket or joint for hammer stems and shanks that will prove strong, durable, and efficient in practice, simple in construction, and comparatively inexpensive to manufacture.

With the above and other objects in view the invention consists in the details of construction and in the arrangement and combination of parts, to be hereinafter more fully set forth and claimed.

In describing the invention in detail reference will be had to the accompanying drawings, forming a part of this specification, wherein like characters denote corresponding parts in the several views, and in which—

Figure 1 is a view in elevation of a hammer and its corresponding parts, showing the joint embodying the invention in use. Fig. 2 is a view in perspective of the joint, said joint being shown in a slightly-modified form; and Fig. 3 is a fragmental view of a hammer, showing the form of joint for use in a "grand" piano.

In the drawings, A indicates a butt and its

parts of ordinary construction, and B a hammer comprising a rounded stem 1, a shank 2, and a suitable hammer-head 3. The shank is also rounded and has a shoulder 4 near the top of the hammer-head. The shank 2 is secured to the stem 1 by means of a skeleton joint or socket 5 of suitable light metal approximately T-shaped in construction, the head 6 of which is open at either end and adapted to receive the rounded portion of the shank. Holes 7 are suitably placed in the head of the socket and are adapted to receive screws 8, which are applied after the shank has been properly adjusted. In case of accidental displacement the shoulders 4 limit the downward movement of the joint. As a further precaution against accidental displacement the upper end of the head may be closed to limit the upward movement of the shank, as shown at 9, Fig. 2. The stem 10 of the joint is adapted, as is obvious, to receive the free end of the stem 1 and has also holes suitably placed for the reception of screws to hold the stem in its adjusted position.

If desired, the shanks can be covered with a bushing-cloth 11 to prevent the metallic joint from rattling and affecting the tone of the instrument.

In order to provide means for engaging the check of the piano mechanism for use in the type known as "grand" pianos, the front of the joint is provided with a flat surface, the operation of which will be apparent to those skilled in the art.

The operation, construction, and advantages will, it is thought, be fully understood from the foregoing description.

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

In a piano, a skeleton joint or socket having a closed end, a hammer having a shank fitted in the socket with its end adapted to abut the end of said socket, a shoulder formed on the shank engaged by the end of the socket and a stem formed with the socket to receive the hammer-stem.

In testimony whereof I affix my signature in the presence of two witnesses.

CHARLES WM. PRESSLEY.

Witnesses:

CHAS. C. BAKER,  
HENRY C. HALLMAN.