W. J. SMITH.

CLOCK HAMMER.

APPLICATION FILED AUG. 30, 1917.

1,266,875.

Patented May 21, 1918.

FIG 1

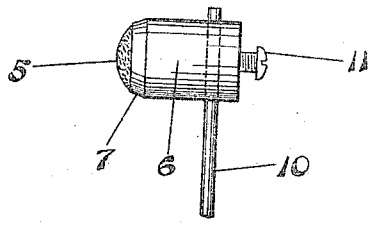


FIG 2

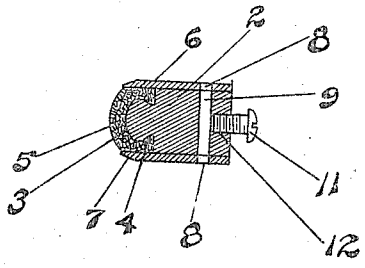


FIG 3

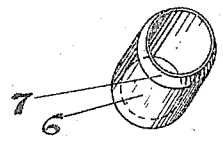


FIG 4

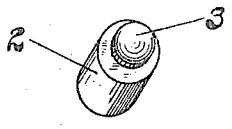
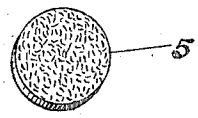


FIG 5



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UNITED STATES PATENT OFFICE.

WILLIAM J. SMITH, OF WATERBURY, CONNECTICUT, ASSIGNOR TO WATERBURY CLOCK CO., OF WATERBURY, CONNECTICUT, A CORPORATION.

CLOCK-HAMMER.

1,266,875. Specification of Letters Patent. Patented May 21, 1918.

Application filed August 30, 1917. Serial No. 188,927.

To all whom it may concern:

Be it known that I, WILLIAM J. SMITH, a subject of the Emperor of Austria, residing at Waterbury, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Clock-Hammers; and I do hereby declare the following, when taken in connection with the accompanying drawings and the characters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this application, and represent, in—

Figure 1 a view in side elevation of a clock-hammer constructed in accordance with my invention, the hammer-wire being broken away.

Fig. 2 a view thereof in central longitudinal section with the hammer-wire removed.

Fig. 3 a detached perspective view of the tubular hammer-casing.

Fig. 4 a corresponding view of the hammer-core.

Fig. 5 a corresponding view of the hammer-leather before its introduction into the hammer-casing.

My invention relates to an improved cushioned clock-hammer, the object being to produce at a low cost for manufacture, a hammer constructed with particular reference to presenting the maximum cushioning surface, and to effectively securing the cushion in place.

With these ends in view, my invention consists in a cushioned clock-hammer having certain details of construction and combinations of parts as will be hereinafter described and pointed out in the claims.

In carrying out my invention as herein shown, I employ a cylindrical core 2 formed from a short length of solid rod and provided upon its outer end with a concentric retaining-head 3 having a rounded outer end and formed at its base with an annular undercut retaining-groove 4 which latter receives the edges of a disk-shaped cushion 5 which is in effect wrapped around the said retaining-head and held in place thereon by a tubular hammer-casing 6 into which the core 2 is driven from the inner end thereof. As shown, the outer end of the casing 6 is beveled as at 7, while its inner end is formed with oppositely located holes 8 registering with a transverse hole 9 formed in the inner end of the core for the reception of the hammer-wire 10 which is secured in place by a set-screw 11 entered into a tapped opening 12 formed in the inner end of the core and in line with the longitudinal center thereof.

In making my improved cushioned clock-hammer, the cushion 5, which may be of leather or some fibrous material, is centered upon the rounded crown of the retaining-head 3 of the core 2 after which the same is forced into the hammer-casing 6 from the inner end thereof, whereby the cushion by the contact of its edges with the inner wall of the casing, is forced to wrap itself around the said head 3 and to enter the groove 4 at the base thereof. The said core 2 and casing 6 are so proportioned in length that when their rear ends are in registration the cushion will project beyond the outer end of the casing for the full inner diameter thereof, as shown in Fig. 2, the cushion being given a rounded form by the rounded outer end of the retaining-head of the plug.

By my improved construction I thus secure a cushion having the full internal diameter of the casing, and therefore presenting the maximum of cushioning surface, whereby it becomes comparatively easy to set the hammer with respect to the bell or gong with which it co-acts. Also, I secure the cushion in place beyond any possibility of its getting loose or out of place.

I claim:

1. In a cushioned clock-hammer, the combination with a tubular hammer-casing, of a core adapted to be inserted thereinto and formed at its outer end with a retaining-head having an annular undercut groove at its base, and a cushion wrapped around the said head and having its edges entered into the said groove and held in place therein by the inner wall of the outer end of the casing, whereby the said cushion is positively held in place.

2. In a cushioned clock-hammer, the combination with a tubular hammer-casing, of a core conforming in external diameter to the internal diameter of the said casing and formed at its outer end with a retaining-head, the base of which has an annular undercut groove, and a disk-shaped cushion wrapped around the said head by which it is given a curved form and having its edges entered into the said groove in which they

are positively held in place by the side walls of the outer end of the said casing, the inner portions of the said casing and plug being formed with alined transverse holes for the reception of a hammer-wire which is engaged by a set-screw mounted in the inner end of the plug in line therewith.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

WILLIAM J. SMITH.

Witnesses:
J. R. PUTNAM,
FREDERICK WEHINGER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."