Jan. 20, 1931. W. J. PANNIER, JR., ET AL 1,789,832

HAMMER STAMP

Filed April 15, 1929

Fig. 2.

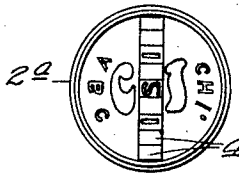


Fig. 5.

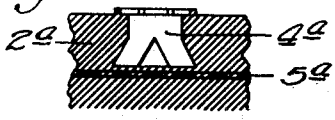


Fig. 1.

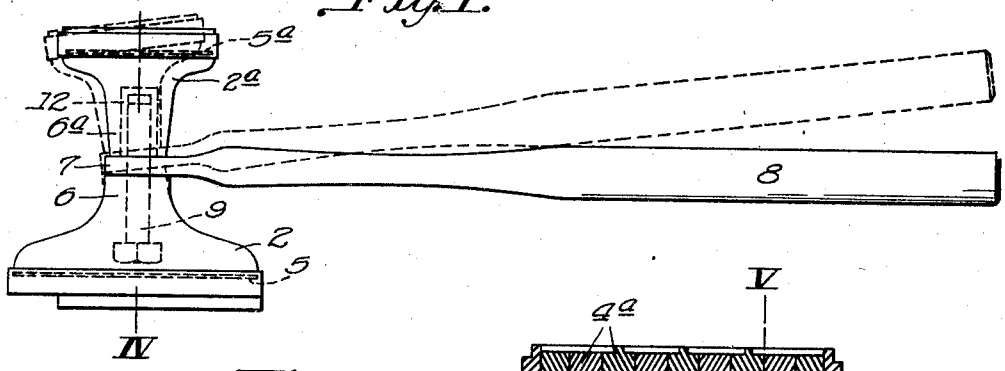


Fig. 3.

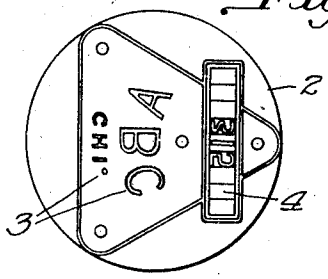


Fig. 4.

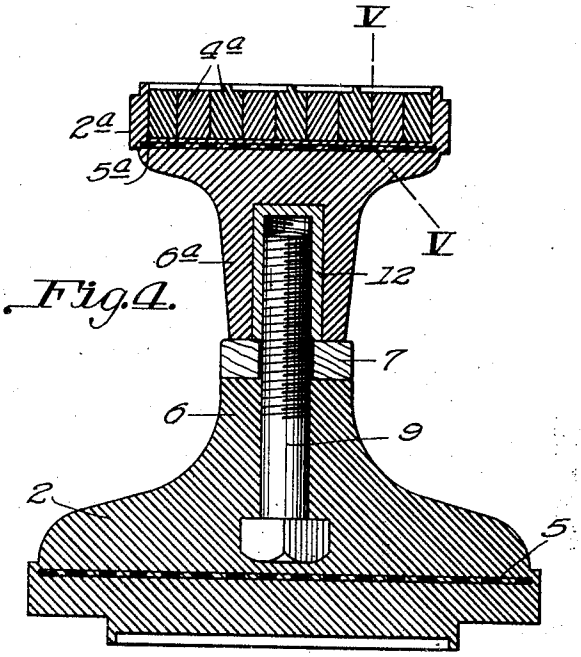
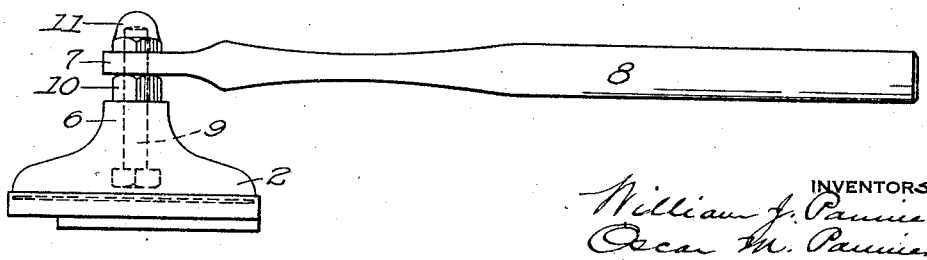


Fig. 6.



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1,789,832

UNITED STATES PATENT OFFICE

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HAMMER STAMP

Application filed April 15, 1929. Serial No. 355,123.

Our invention refers to an improvement in hammer stamps for the purpose of stamping sheet metal or any other similar commodity having a substantially flat surface, against which a stamp may be thrust for imprinting thereon, in the manner of a hammer, having an operating handle. In such stamps, it is desirable that there be interposed between the handle and the stamping face means providing a sufficient degree of resiliency adapting the face of the stamp to effect good contact, independent of variations in exact parallelism between the surface to be stamped and the stamping surface, when used.

The device consists generally of a stamp, in either single or double form, having an operating handle so connected as to permit of a limited degree of flexibility whereby to compensate for any lack of accuracy in delivering the blow so as to allow the stamping face to automatically adjust itself, under the impulse of the blow.

In its construction, our stamp is composed of a single or double head portion composed of rubber or other suitable resilient or flexible material, a handle and means connecting it with the stamping member or members, together with the reinforcing element imbedded in the stamping head adjacent to the stamping characters for stiffening and reinforcement of the active face of the tool, together with certain other features of construction and advantage, as shall be more fully hereinafter described.

Referring to the drawings showing preferred constructions:

Fig. 1 is a view in side elevation, showing the double head form of stamp complete;

Fig. 2 is a plan view of the upper stamping face thereof;

Fig. 3 is a similar view of the opposite stamping face;

Fig. 4 is an enlarged cross sectional view on the line IV—IV of Fig. 1;

Fig. 5 is a cross sectional detail view on the line V—V of Fig. 4;

Fig. 6 is a view similar to Fig. 1 showing a single head stamp.

In the drawings, the main hammer head 2 comprising one of the stamping members is made of rubber or the like having an enlarged outer body of circular or other form adapting it to provide for any suitable printing letters, figures or characters, as indicated on the face view, Fig. 3. Such characters are ordinarily molded in the rubber, as at 3, or may be in the form of detachable inserted type 4, all mounted on a common plane.

For the purpose of reinforcing the head 2 closely adjacent to the area embodying such characters, the head is provided with a thin reinforcing reticulated or perforated plate 5 imbedded in and preferably vulcanized to the rubber body of the head.

Plate 5 may be of copper, brass, or other suitable material, having a series of closely adjacent openings throughout its area, into and through which the rubber is invested in the process of manufacture, whereby to intimately connect and amalgamate the head and its plate. When thus inserted, plate 5, which extends across the main middle portion of the head terminating slightly within its edge as shown in Fig. 4, stiffens and reinforces its entire outer body portion so as to effect sufficient stiffening and impart a desired degree of rigidity for the purposes stated.

The body portion of the head 2 may be of any suitable form, and is provided with an inner diminishing or narrowed neck 6 having a flat opposing face for attachment to and connection with the end 7 of an operating handle 8. A central connecting bolt 9 is imbedded by its head and shank portion and vulcanized within the middle of the head 2 and projects sufficiently far beyond its smaller attaching face to extend through a registering hole in the end of the handle and therebeyond, for attachment to a companion stamp in the double sided form as in Fig. 4, or for connection with securing nuts 10—11 in the single head form, as in Fig. 6.

In the double construction, the opposite head 2*a* is generally similar to head 2 above described, being provided with the reinforcing perforated plate 5*a* or the like, and any suitable form or kind of stamping characters, either molded in the rubber face of the head

itself, or separately attached as by the stamping characters 4*a*. The latter, shown in detail in Fig. 5, may be of the split wedge type like that shown in prior patent of W. J. Pannier, Jr., No. 1,191,820. In such case their divided bases bear against the inner socketed surface of the head, closely adjacent to plate 5*a*, providing a sufficiently firm and comparatively rigid opposing bearing.

The companion head 2*a* of suitable form and design, is also preferably provided with a reduced neck 6*a* in the center of which is imbedded and vulcanized a sleeve nut 12 of any suitable form.

The nut 11 makes screw engagement with the threaded outer end of bolt 9 by turning and tightening thereon, by which the two heads are tightly clamped together and against the opposite side faces of the handle terminal 7.

By such construction head 2*a* may be readily connected to or disconnected from the other head 2, for substitution as to one or both, of other similar heads having different marking or stamping characters, or for any other purpose.

With either form of construction, the comparatively soft rubber body of the heads surrounding bolt 9 and nut 12 provides ample flexibility to adapt the face of either head to make a good stamping impression, whether brought fairly and evenly against the surface to be stamped, or at a considerable angle thereto by the operator. When there is any such variation, as is indicated by the dotted lines in Fig. 1, and the face of either head is brought against a surface with which it would not ordinarily register, due to any angular relation, the flexibility of the head connection with the handle permits of automatic adjustment and good stamping results, under impact of the blow.

The construction and operation of the invention will be readily understood and appreciated by all those familiar with hand operated stamping devices. It is comparatively simple in construction capable of easy and rapid change or substitution, and may be used at considerable speed by alternately striking upon an inking pad and then upon a surface to be marked, without the necessity for any special skill.

The device is extremely useful, very durable, and may be made in different shapes, designs, sizes, weights, or otherwise changed or varied by the skilled mechanic, but all such changes are to be understood as within the scope of the following claims.

What we claim is:—

1. A stamping head composed of a body of resilient material having a reduced flat faced extended neck, a transverse reinforcing plate in the opposite portion of the body, and an imbedded securing bolt closely adjacent the plate and projecting through the neck beyond its flat face.

2. A stamping head composed of a body of rubber having a stamping face, a perforated reinforcing plate imbedded in the head adjacent said face, a reduced holding neck, and a connecting bolt imbedded in the body having a head closely adjacent the plate and extending by its shank through and beyond the neck.

3. A stamping head composed of a body of rubber having a stamping face of maximum lateral dimensions, a perforated reinforcing plate imbedded in the head adjacent said face, a reduced elongated holding neck adapted to provide a pliable connecting portion for the head, and a connecting bolt having a head imbedded in the larger portion of the body closely adjacent the plate and extending outwardly through and beyond the neck.

4. In combination with a handle having a bolt opening, a stamping head of rubber provided with a reduced neck and a flat inner face, a bolt imbedded in the head and extending through the bolt opening of the handle, and securing means therefor.

5. In combination with a handle having a bolt opening, a pair of stamping heads therefor of resilient material, one having an imbedded bolt and the other having an imbedded nut.

6. In combination with a handle having a bolt opening, a pair of stamping heads therefor of resilient material each having a reduced neck, one having an imbedded bolt extending through its neck and the other having an imbedded nut in its neck for connection with the bolt whereby to clamp the heads to opposite sides of the handle.

7. In combination with a handle having a flat terminal provided with a bolt opening, a stamping head of resilient material and maximum lateral dimensions at its outer free portion having a reduced neck and a flat inner face engaging the handle terminal, a central holding bolt imbedded in the head terminating inwardly beyond its stamping face and extending through and beyond the reduced neck and the terminal, and means securing the projecting end of the bolt to the terminal.

8. In combination with a handle having a flat terminal provided with a bolt opening, a stamping head of resilient material and maximum lateral dimensions at its outer free portion having a reduced neck and a flat inner face engaging the handle terminal and having stamping characters on its outer portion, a central holding bolt imbedded in the head terminating inwardly beyond its stamping face and extending through and beyond the reduced neck and the terminal, and means securing the projecting end of the bolt to the terminal.

9. In combination with a handle having a flat terminal provided with a bolt opening, a stamping head of resilient material and maximum lateral dimensions at its outer free portion having a reduced neck and a flat inner face engaging the handle terminal, a central holding bolt imbedded in the head terminating inwardly beyond its stamping face and extending through and beyond the reduced neck and the terminal, a transverse reinforcing plate imbedded in the head between its stamping face and the bolt, and means securing the bolt to the terminal.

In testimony whereof we hereunto affix our signatures.

WILLIAM J. PANNIER, JR.
OSCAR M. PANNIER.