

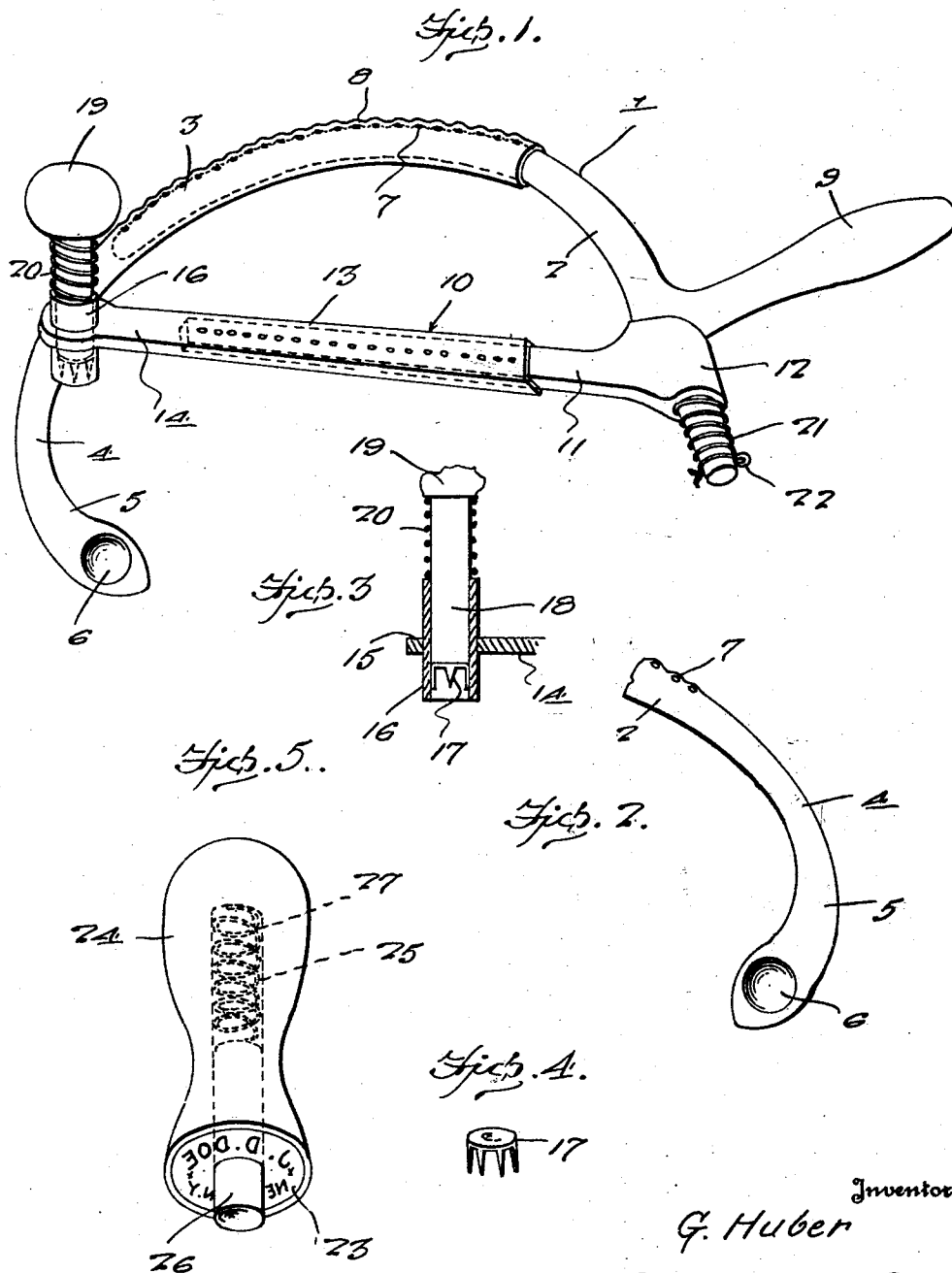
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G. HUBER

RIVETING DEVICE

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UNITED STATES PATENT OFFICE.

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RIVETING DEVICE.

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To all whom it may concern:

Be it known that I, GUSTAVUS HUBER, a citizen of the Republic of Cuba, residing at Nashville, Vanderbilt University, in the county of Davidson and State of Tennessee, have invented certain new and useful Improvements in a Riveting Device, of which the following is a specification.

This invention relates to new and useful improvements in riveting devices and is more particularly adapted to a means whereby a rivet may be securely fastened to the article with which it is associated in a simple and efficient manner.

One of the important objects of the present invention is to provide a riveting device of the above mentioned character, which is especially adapted for use in the sealing of envelopes so as to prevent any unauthorized person from tampering with the contents thereof without leaving any visible means to indicate such action.

A further object of the invention is to provide a riveting device of the above mentioned character, wherein the parts are of such construction as to render the same to be readily disassembled or adjusted without the loss of time or labor.

A further object is to provide a riveting device of the above mentioned character, wherein means is provided for holding a rivet in position so as to facilitate the upsetting or clenching thereof in a positive and efficient manner.

A still further object is to provide a riveting device of the above mentioned character, which is simple in construction, inexpensive, strong and durable and furthermore adapted for the purposes for which it is designated.

Other objects and advantages of this invention will become apparent during the course of the following description.

In the accompanying drawing forming a part of this specification and in which like numerals designate like parts throughout the same:

Figure 1 is a perspective view of my improved riveting device.

Figure 2 is a plan view of the anvil end of the curved lever.

Figure 3 is a fragmentary sectional view of the free end of the pivoted lever showing the rivet supporting and upsetting means associated therewith.

Figure 4 is a detail perspective view of the rivet, and

Figure 5 is a perspective view of a modification showing a hand stamp with a rivet upsetting means carried thereby.

In the drawing wherein for the purpose of illustration is shown the preferred embodiment of my invention, the numeral 1 designates generally a curved lever and the same includes the solid portion 2 and the tubular portion 3 which is adapted to receive the forward end of the solid portion 2 in the manner clearly shown in Figure 1 of the drawing. The forward end of the tubular portion 3 terminates in the solid portion 4 and has its end flattened as illustrated at 5 and provided with a cavity such as is shown at 6 on each side thereof. This construction forms what is termed as an anvil and the purpose of which will hereinafter be more fully described.

For the purpose of holding the section in any desired adjusted position, I provide the forward end of the solid portion 2 with protuberances such as shown at 7 in the upper portion thereof and the same are adapted to cooperate with similar shaped sockets shown at 8 and arranged in the upper portion of the tubular portion of the section 3.

The rear end of the curved lever 1 is provided with an extension such as is shown at 9 to provide a suitable handle and the same is preferably formed adjacent the extreme outer end of the member 2 in the manner clearly illustrated in Figure 1.

Pivottally supported on the outer rear end of the portion 2 of the curved lever 1 adjacent the handle 9 is the substantially straight lever designated generally by the numeral 10. The pivoted lever 10 comprises the bar 11, the rear portion of which is provided with an enlarged head 12, the latter having an opening therein to receive the outer end of the rear portion 2 of the curved lever 1 whereby the bar 11 may be pivottally supported on the same. The forward end of the bar 11 is adapted to extend into the tubular member 13 and for the purpose of holding the bar and tubular member in any desired adjusted position, I provide the bar 11 with protuberances similar to the protuberances 7 formed on the forward end of the portion 2 of the curved lever 1 and coacting sockets in the tubular member 13.

The outer end of the tubular portion 13 of the pivoted lever 10 is flattened as shown at 14 and is provided with an enlarged eye such as is shown at 15 in which is supported intermediate its ends the sleeve 16. The sleeve is of such a diameter as to snugly receive the rivet 17, the construction of which is clearly illustrated in Figures 3 and 4 of the drawing. Adapted for vertical movement in the sleeve 16 is the plunger 18, a plunger head 19 being provided on the upper end thereof whereby the same may be actuated in the manner hereinafter to be more fully described. For the purpose of normally keeping the plunger in an inoperative position, I provide the coil spring 20 which encircles the plunger and is disposed between the plunger head 19 and the upper edge of the cylinder or sleeve 16 in the manner clearly illustrated in Figure 3 of the drawing. The forward end of the pivoted lever 10 is adapted to swing into cooperative relation with the forward end of the curved lever 1 in the manner to be presently described.

A coil spring such as is shown at 21 is disposed around the rear end of the curved lever and is disposed between the enlarged head 12 of the pivoted lever 10 and a suitable cotter pin 22 which extends through a transverse opening provided in the outer rear end of the curved lever in the manner clearly illustrated in Figure 1. The purpose of this spring is to normally hold the pivoted lever in frictional engagement with the handle portion so as to prevent the relatively free swinging movement of the pivoted lever on the rear end of the curved lever.

In sealing the flaps of an envelope, the forward end of the curved lever is inserted within the envelope beneath the folded flap at the intersection thereof with each other and a rivet is placed in the lower portion of the sleeve or cylinder 16. The loose flap is then placed in position ready for sealing and the plunger head 19 is pushed downwardly causing the plunger 18 to exert a downward pressure on the head of the rivet 17 disposed in the lower portion of the sleeve and forcing the same through the flap of the envelope, the pointed ends of the rivet being received in the concaved portion 6 which provides an anvil whereby the rivet will be upset or clinched in position. The plunger head is then released and the coil spring 20 will return the plunger to its normal inoperative position. After the riveting device has been removed, the envelope is then sealed in the usual manner. When the flaps of the envelope have been riveted, any attempt to tamper with the contents thereof by any unauthorized person will be readily visible and hence the riveting of an envelope in the manner above set forth will render the

delivery of the same and the contents thereof in a safe manner.

While I have specifically described the application of my riveting device in connection with an envelope, it is to be understood that the same may also be used for any other purpose and I do not wish to limit myself to the particular manner or for the particular purpose for which it is designated.

In Figure 4 of the drawing I have shown a modification wherein a rubber stamp of any conventional construction is illustrated at 23, the same being secured to the bottom face of a suitable handle 24, the handle 24 is provided with a longitudinally extending central pocket 25 which communicates with the bottom face thereof and arranged in the pocket is a slidable plunger 26 and a coil spring 27 is disposed between the rear end of the pocket and the inner end of the plunger. In use, the rivet is placed in position on the article to be fastened and sealing wax or the like is placed around the rivet, the stamp is then pressed into the sealing wax and the free outer end of the plunger 26 will engage the head of the rivet and a pressure on the handle will cause the clinching or upsetting of the rivet so as to securely fasten the same.

It will thus be seen from the foregoing description, that a riveting device has been provided which is simple in construction, inexpensive, and the parts further so arranged as to enable the same to be readily adjustable to various sizes as is desired and furthermore the parts may be reversed or disassembled whenever necessary.

A device of this character may be manufactured at a very low cost and will further be strong and durable.

While I have shown the preferred embodiment of my invention, it is to be understood that various changes in the size, shape and arrangement of parts may be resorted to without departing from the spirit of the invention and the scope of the appended claim.

Having thus described my invention, what I claim is:—

A riveting device comprising a curved lever having the forward end thereof provided with a cavity to form an anvil, the rear end thereof having a handle formed thereon, a second lever pivoted on the rear end of the curved lever, means for normally holding the pivoted lever in frictional engagement with the handle on the rear end of the curved lever, said levers comprising adjustable sections, the free end of the pivoted lever adapted to swing into cooperative relation with the anvil end of the curved lever, and a rivet receiving and upsetting means associated with the free end of the pivoted lever.

In testimony whereof I affix my signature.
GUSTAVUS HUBER.