

No. 778,924.

PATENTED JAN. 3, 1905.

C. T. UMSTED.
RIVETING DEVICE.
APPLICATION FILED DEC. 15, 1903.

Fig. 1.

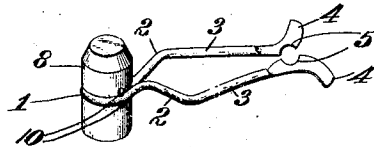


Fig. 2.

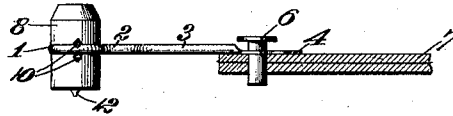


Fig. 3.

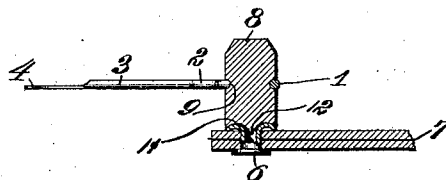
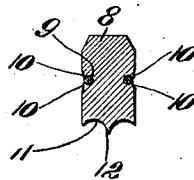


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

CLIFTON T. UMSTED, OF FORT SCOTT, KANSAS.

RIVETING DEVICE.

SPECIFICATION forming part of Letters Patent No. 778,924, dated January 3, 1905.

Application filed December 15, 1903. Serial No. 185,210.

To all whom it may concern:

Be it known that I, CLIFTON T. UMSTED, a citizen of the United States, residing at Fort Scott, in the county of Bourbon and State of Kansas, have invented certain new and useful Improvements in Riveting Devices, of which the following is a specification.

My invention relates to riveting devices for riveting paper, leather, wood, thin metal, and other light-weight material together; and my object is to produce a small and compact tool of this character which will be found convenient and serviceable in every household.

A further object is to produce a riveting device which performs its functions efficiently and reliably and which combines simplicity, strength, durability, and cheapness in a high degree.

To these ends the invention consists in certain novel and peculiar features of construction and combinations of parts, as hereinafter described and claimed, and in order that it may be fully understood reference is to be had to the accompanying drawings, in which—

Figure 1 is a perspective view of a riveting device embodying my invention. Fig. 2 is a side elevation of the same with the rivet carried thereby and projecting through leather, shown in section. Fig. 3 is a vertical section of the device as it upsets the rivet upon the leather. Fig. 4 is a section taken through the hammer portion of the riveter at right angles to the section shown in Fig. 3.

In detail the riveter comprises a spring-wire bent at its center to form a loop or eye 1 and from the latter divergingly, as at 2, and then convergingly, as at 3, the free ends of arms 3 being flattened and bent outwardly to provide flaring jaws 4, each of which is provided with a notch 5 in its inner side to receive and hold reliably an ordinary tubular rivet 6 until the latter is driven through two pieces of leather 7 or the equivalent thereof, the jaws being sprung apart slightly in placing the rivet in or removing it from position, this resiliency being necessary to adapt it for use on rivets of varying diameter.

8 designates the head of the riveter, the same having an annular groove 9 to receive the loop or eye 1, said groove being sufficiently deep at opposite sides to permit of effecting a permanent connection between the loop and the head by striking and upsetting the latter above and below the loop, as at 10, these upsetting or riveting portions overlapping the outer side of the loop, as shown most clearly in Fig. 4. The fact that the groove is deeper at the point contiguous to the upset portions of the head than at any other point obviously prevents any tendency of the head swiveling or turning in the loop. The head or hammer is provided with an annular groove 11 in its under side, said groove being segmental in cross-section and forming a central point 12, which depends by preference below the body of the head in order that it may be conveniently inserted in the end of the hollow rivet preliminary to the actual riveting operation.

After the rivet is disposed in proper relation with the parts to be riveted together and is inserted or driven through said parts, as shown in Fig. 2, the jaws are sprung apart, and the point end of the hammer-head is inserted in the end of the rivet, the latter, of course, being first turned over so as to dispose the open end of the rivet upwardly. A sharp blow on the hammer-head results in upsetting the rivet, as shown in Fig. 3, and securing the parts 7 together.

From the above description it will be apparent that I have produced a riveting device embodying the features of advantage enumerated as desirable in the statement of invention and which may be modified in minor particulars without departing from the principle of construction involved.

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

As a new article of manufacture, a riveting device, comprising a spring-wire bent to form a substantially circular loop, portions 2 diverging from the same, and arms 3, converging

from the outer ends of portions 2 and terminating in flattened and outwardly diverging or flaring jaws 4, provided with opposing notches 5 in their inner sides; and a head having an annular groove engaged by said loop and provided with an annular groove 11 in its lower end.

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

CLIFTON T. UMSTED.

Witnesses:

G. L. GARRISON,
GEO. C. KENNEDY.