

D. HEATON.
Studs for Wearing-Apparel.

No. 157,914.

Patented Dec. 22, 1874.

Fig 1.

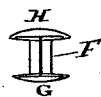


Fig 2.



Fig 3.

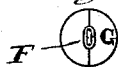


Fig 4.



Fig 5.



Fig 6.



Witnesses.

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IMPROVEMENT IN STUDS FOR WEARING APPAREL.

Specification forming part of Letters Patent No. **157,914**, dated December 22, 1874; application filed November 4, 1874.

To all whom it may concern:

Be it known that I, DAVID HEATON, of the city and county of Providence and State of Rhode Island, have invented a new and Improved Stud for Wearing Apparel, &c., of which the following is a specification, referring to the accompanying drawings making part of the same, in which—

Figure 1 is one upright view, and Fig. 2 is another upright view, of my improved stud with a flat neck or post, of which a flatwise view is shown in Fig. 1, and an edgewise view is shown in Fig. 2. Fig. 3 is a cross-section by the line *a a* of Figs. 1 and 2. Fig. 4 is a cross-section, by a similar line, of a round neck or post stud; and Fig. 5 is a similar view of an oval post stud. Fig. 6 is a flat view of the blank from which my improved stud is made.

Similar letters mark like parts in all the said figures.

My invention consists of a stud made from a single metallic clip or blank, of such form as to be capable of folding or bending into form, and of clasping and soldering together, as herein described.

Heretofore, in making such studs, the upper and under parts of the two heads have been cut separately and soldered together, and these two heads connected by a third piece, called the post or neck, to which the two heads are bound, and all soldered together and finished in a manner well known.

Instead, however, of making the stud in detached pieces, (five in number, usually,) as described, and afterward soldering the pieces together, I propose to cut a shape from sheet metal, and fold or bend, and clasp and solder the same together in proper form, as I will proceed to describe.

The clip or blank from which the said stud is to be made is of the form shown in Fig. 6, and the stud made therefrom is shown in Figs. 1 and 2. The said blank is cut from sheet metal in the usual way of producing such shapes, and is afterward converted into the form of the stud by first bending the two parts

a a under the disk *b*, to form the head H, and the two parts *d* and *e* at right angles to the under part of said head, to form the post or neck F; then bending the two parts *m n* at right angles to said post for the under side of the other head, G, and finally bending the disk D over flatly upon the parts *m* and *n* for the outside of the head G. After being thus bent into the required form, the whole is secured centrally by bending and firmly clasping the two parts *c c* of the part *d* of the post around the other part *e* of the same, after which the divided parts of the heads and the post are all united by soldering.

By the mode of folding above described, one side of the said clip or blank folds inwardly throughout, and the other side of the blank forms the outside of the two heads H and G, and the post F. It is therefore only necessary to coat one side of the clip with solder and bend that side inward, and after the folding together and the post clasped about by the parts *c c*, to heat the whole while the two heads are held between a pair of tweezers, to fuse and solder the whole structure together in the most complete and substantial manner, and by so doing make a superior stud with a double-clasped post connected with the metal of the head, besides the usual connection formed by soldering, whereby the stud is much stronger and more durable, and more cheaply made than by the former mode.

The post F in Fig. 1 is shown flatwise. A section of the same is shown in Fig. 3; but instead of being flat it may be swaged into round or oval form, as shown in Figs. 4 and 5, and clasped together in the same manner.

I claim—

The improved stud made from the clip or blank shown and described, bent into proper form, and united by soldering, substantially as specified.

DAVID HEATON.

Witnesses:

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