No. 656,598. Patented Aug. 21, 1900.

G. R. CLARKE.

STUD.

(Application filed July 12, 1900.)

(No Model.)

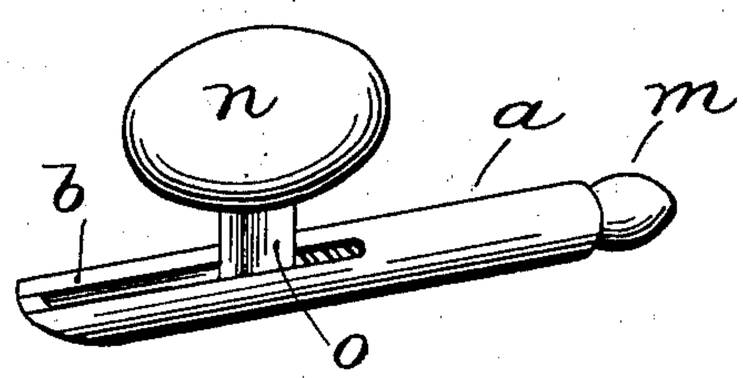

FIG. 1.

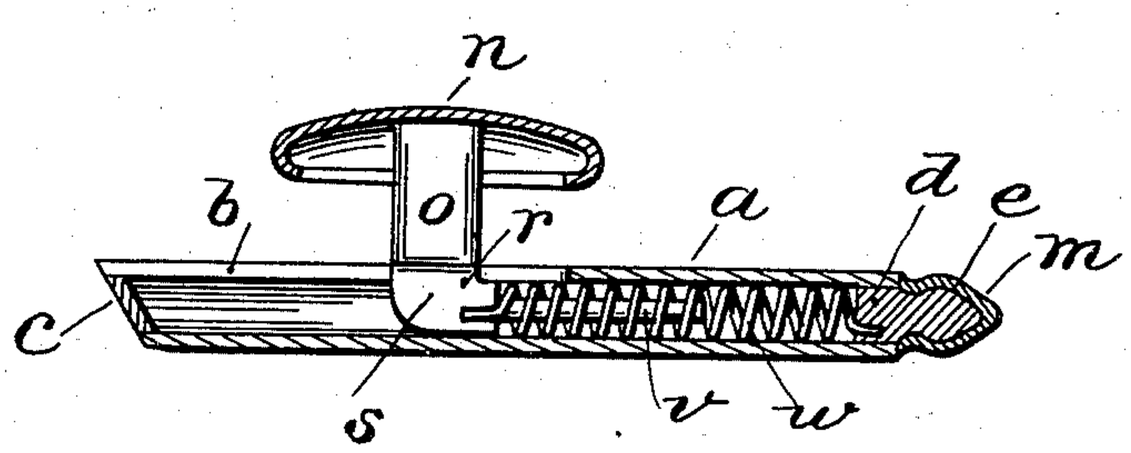

FIG. 2.

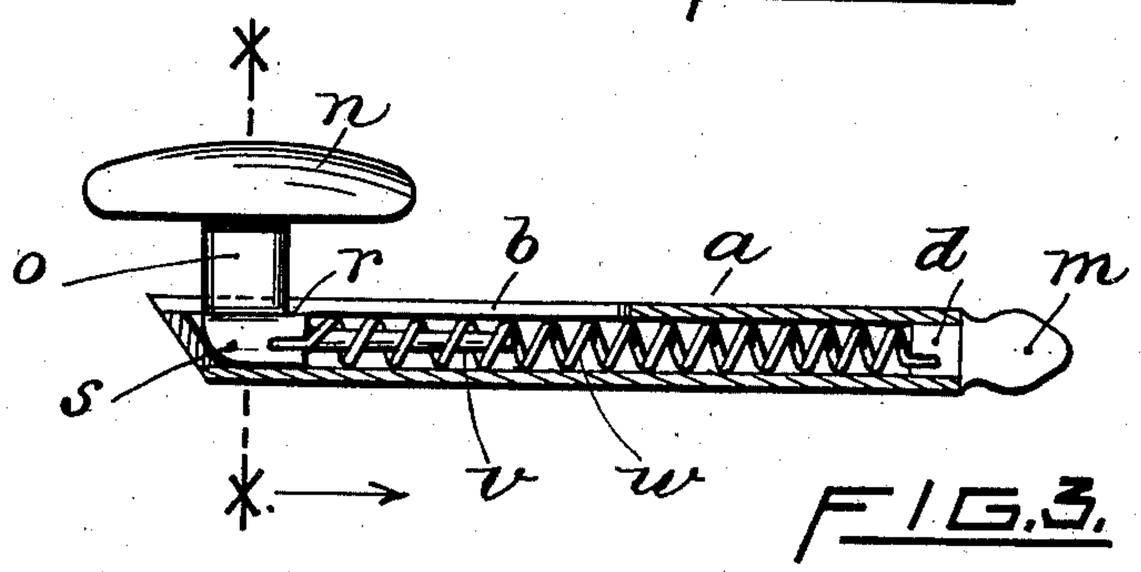

FIG. 3.

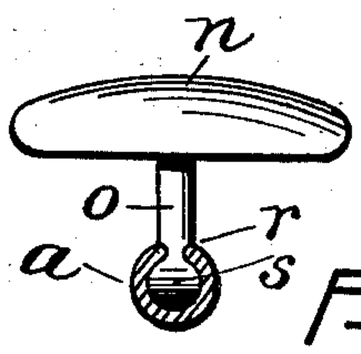

FIG. 4.

WITNESSES,

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UNITED STATES PATENT OFFICE.

GEORGE R. CLARKE, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO THE CHARLES E. HANCOCK COMPANY, OF RHODE ISLAND.

STUD.

SPECIFICATION forming part of Letters Patent No. 656,598, dated August 21, 1900.

Application filed July 12, 1900. Serial No. 23,297. (No model.)

To all whom it may concern:

Be it known that I, GEORGE R. CLARKE, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented a certain new and useful Improvement in Studs, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to that class of studs whose foot consists of a stem at right angles with the stud-post. Its object is to secure automatic action and such location of parts as to prevent loss or fracture of the same. This object I attain by the construction hereinafter described, and illustrated in the drawings, wherein like letters of reference refer to like parts throughout the views.

Figure 1 is a perspective view of my stud; Fig. 2, a central longitudinal section of the head and barrel with parts in normal position; Fig. 3, a like view with parts distended ready for insertion, and Fig. 4 is a transverse vertical section on line *x x* of Fig. 3.

The construction is as follows: The stud-foot is a barrel *a*, longitudinally slotted a convenient distance at *b*, having one end *c* closed and beveled and the opposite end filled by a plug *d*, whose projecting end *e* is pointed and provided with an annular groove *e'*. Over this point a gold shell *m* may be swaged when the quality of goods so demands, the shell fitting in the groove *e'*, and thereby being securely held on the plug *d*. The stud-body consists of a head *n* and thin post *o*, the latter having its sides grooved at *r* to facilitate movement within the barrel-slot *b*. The lower portion of the post has a base *s* extending at right angles therefrom, with its rear surface beveled or curved and carrying upon its forward end a rod *v*, the whole adapted to slide within the barrel aforesaid. A helical spring *w* is fitted within the barrel, with one end soldered or otherwise conveniently held in union with the plug *d*, while the other spring-terminal is similarly fixed to the base *s*.

To operate my device, the stud member is drawn to the rear end of the barrel, while the point and body *a* are inserted into the fabric, as shown in Fig. 3, and the release of tension upon the spring projects the rear end of the barrel beneath the fabric, (see Fig. 2,) thus holding the stud in place.

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

As an improved article of manufacture, a stud comprising a slotted barrel having one of its ends closed and beveled, a head provided with a shank slidably mounted in said barrel and having a base disposed therein and extending at right angles to the shank, said shank being grooved at opposite sides for receiving the edges of the slot of the barrel, a rod carried by said base and projecting therefrom, a plug arranged in the other end of said barrel and having an outwardly-projecting point provided with an annular groove, a spring arranged in said barrel and interposed between said base and said plug, the ends of said spring being connected to the ends of said base and said plug, and a shell mounted upon the projecting point of said plug and swaged in the groove thereof, whereby said shell is held upon said point.

In testimony whereof I have affixed my signature in presence of two witnesses.

GEORGE R. CLARKE.

Witnesses:

COLBY N. THOMAS,

HORATIO E. BELLOWS.