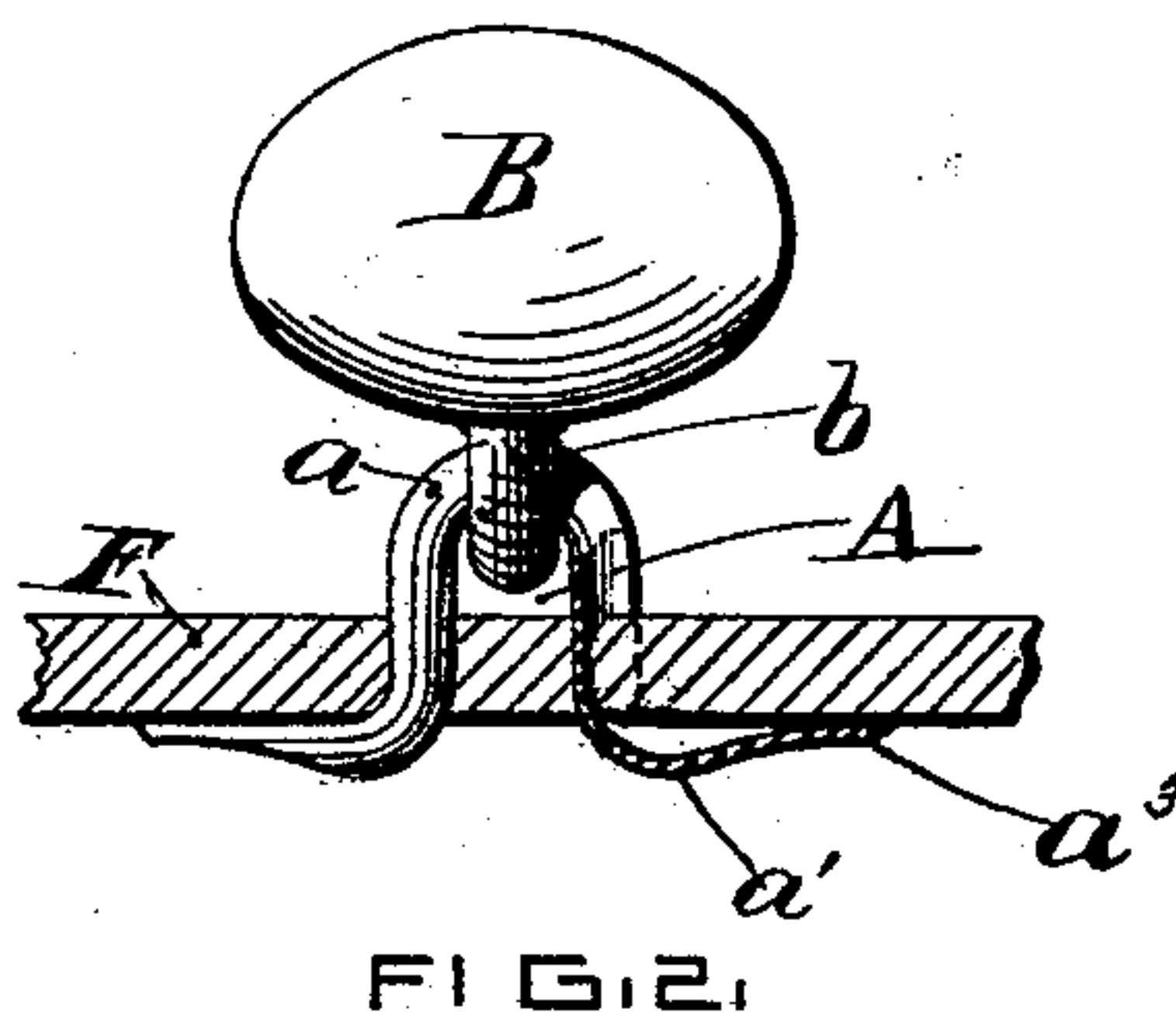
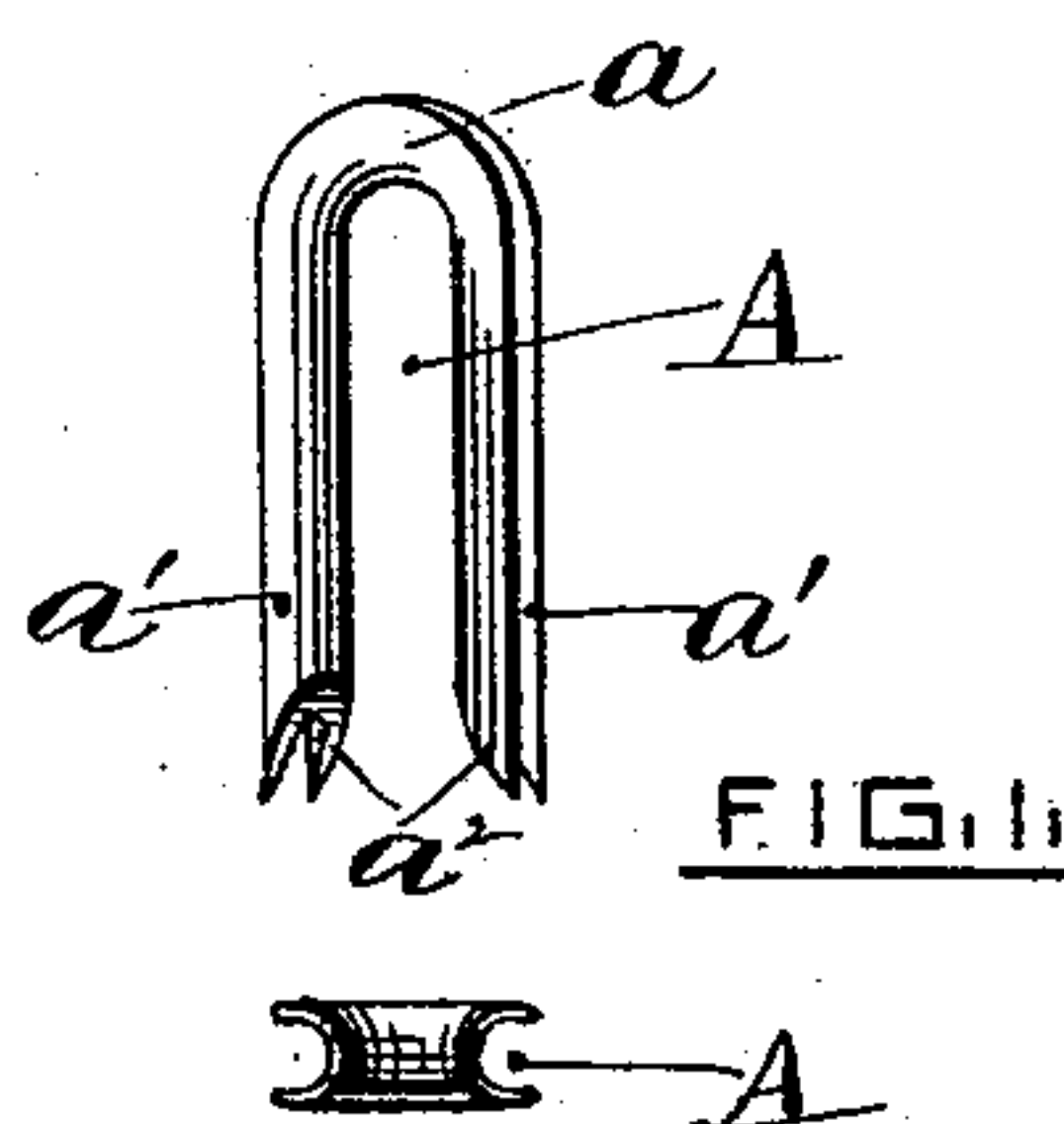


(No Model.)

J. F. THAYER.
BUTTON FASTENER.

No. 277,082.

Patented May 8, 1883.



WITNESSES:

Charles Hannigan.
Willis H. Heath.

INVENTOR:

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Atty.

UNITED STATES PATENT OFFICE.

JAMES F. THAYER, OF PROVIDENCE, RHODE ISLAND.

BUTTON-FASTENER.

SPECIFICATION forming part of Letters Patent No. 277,082, dated May 8, 1883.

Application filed January 8, 1883. (No model.)

To all whom it may concern:

Be it known that I, JAMES F. THAYER, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Button-Fasteners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to an improved fastener for attaching buttons to shoes, &c.; and it consists of a fastener formed from grooved or channel wire bent to a staple form, the loop thereof terminating in two depending prongs or legs, the ends being beveled in opposite directions and adapted to be inserted through the fabric and clinched thereunder by a suitable setting-instrument.

In the accompanying drawings, made enlarged, Figure 1 represents a perspective view of my improved fastener as made from grooved wire. Fig. 2 represents the same in partial section when attached to the fabric with button and clinched thereunder. Fig. 3 represents various or modified forms of grooved wire which may be used.

A in the drawings represents a staple-formed fastener, provided with an eye, a , and two downwardly-projecting prongs, a' , the latter beveled off, thereby forming two sharpened points or spurs on each of said prongs, as shown at a^2 , the whole made from grooved wire, as shown.

I am aware that half-round and other forms of solid wire have been employed for button-fasteners; but the use of grooved or channel

wire for a button-fastening is both new and valuable.

It is practically found that fasteners made from grooved wire possess advantages over those made from solid wire, a prominent advantage of grooved wire being its reduced weight as compared with a solid wire fastener of equal strength.

Fig. 3 represents various other forms of grooved or channel wire which can be used from which to form button-fasteners.

In the operation of attaching buttons to fabrics with my grooved wire fastener I pass one prong thereof through the eye b of the button B, when the fastener and button are both placed in the jaw of a suitable setting-instrument, after which the latter is placed in position relatively to the fabric, the instrument being then made to pass or force the prongs a' through the fabric or material and clinching thereunder, the ends a^3 thereof being flattened during the operation, said ends thereby presenting a much broader surface to the material for holding, the points or spurs a^2 also being susceptible of repenetrating the fabric, thereby holding the fastener in position.

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

The improved button-fastener A, herein described, consisting of the loop a and prongs a' , the latter beveled at a^2 , the whole being concavo-convex in cross-section throughout its length, and adapted for use substantially as shown and set forth.

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

JAMES F. THAYER.

Witnesses:

GEO. W. PRENTICE,
F. A. SMITH, Jr.