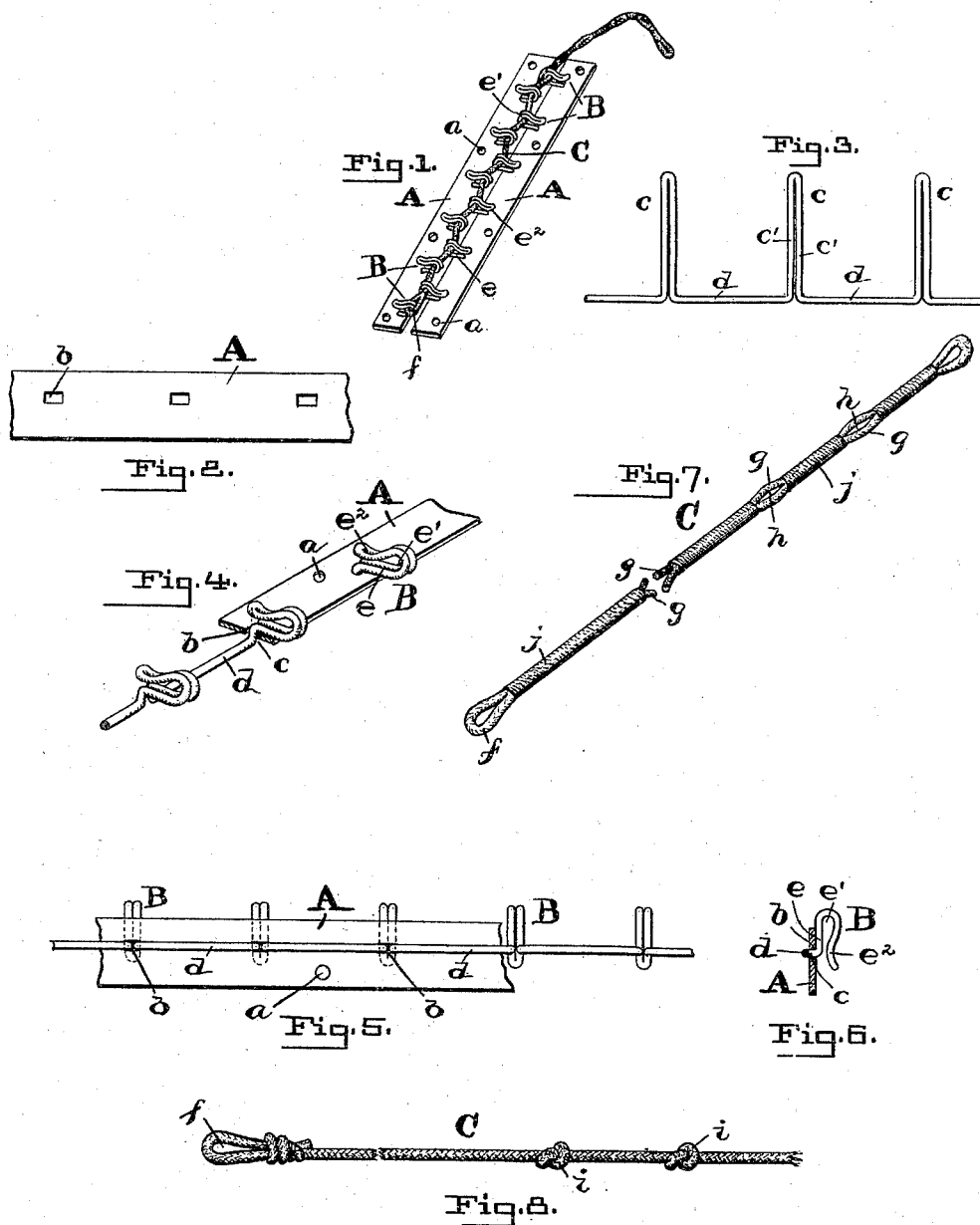


(No Model.)

J. M. CREWS.
FASTENING DEVICE.

No. 492,193.

Patented Feb. 21, 1893.



WITNESSES: _____

INVENTOR: _____

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UNITED STATES PATENT OFFICE.

JAMES M. CREWS, OF ARLINGTON, TENNESSEE.

FASTENING DEVICE.

SPECIFICATION forming part of Letters Patent No. 492,193, dated February 21, 1893.

Application filed September 23, 1892. Serial No. 446,712. (No model.)

To all whom it may concern:

Be it known that I, JAMES M. CREWS, a citizen of the United States, residing at Arlington, in the county of Shelby and State of Tennessee, have invented certain new and useful Improvements in Fastening Devices, of which the following is a specification.

The invention relates to an improved fastening device which is adapted for use on corsets, gloves, shoes and other-articles, to close the opening in the same.

The object is to provide a simple, inexpensive, and easily manipulated construction.

The invention is illustrated in the accompanying drawings, in which,—

Figure 1 shows a perspective view of the complete device; Fig. 2, a plan of a portion of one of the stay-plates; Fig. 3, a view in the flat of a wire of which the fastening hooks are formed; Fig. 4, a perspective view illustrating the manner in which the hooks are fastened in the stay-plates; Fig. 5, a fragmentary back-view of a stay-plate and hooks therein; Fig. 6, a cross-section of a stay-plate showing a hook; Fig. 7, shows one form of connecting string; and Fig. 8 shows another form of connecting string.

In carrying out my invention I provide a pair of stay-plates or strips, A, provided with holes, *a*, near one side-edge for fastening the plates on opposite sides of the opening in corsets, shoes gloves, and other articles of apparel.

Each plate has a series of rectangular holes, *b*, near the other side-edge, and hooks are fastened to the plate through the said rectangular holes, as follows:—A single piece of wire is formed into a series of straight prongs, *c*, with straight connecting portions, *d*, at right angles to the prongs. These prongs are formed by bending and doubling the wire so that two straight parts, *c'*, will lie closely side-by-side and form a single prong. The said prongs are inserted through the rectangular holes, *b*, respectively, in the stay-plate, so that the straight connecting portions, *d*, will fit against the back-side of the plate, and the prongs project from the opposite or front

side. Suitable dies will be used to form the said prongs into hooks, B, each with a straight shank, *e*, clamped against the front side of the plate, and a rounded or looped part, *e'*, projecting beyond the edge of the plate,—the end-portion, *e²*, of said hook being brought in close to the shank, *e*. It will be seen that the shanks, *e*, clamped against the front side of the plate and the straight connecting portions, *d*, clamped against the back side of the plate will hold the hooks rigidly. Each plate is provided in this manner with these hooks, and those on one plate are arranged so as to have position alternately between those on the other, whereby when the plates are fitted together the hooks on both plates together appear in "staggered" relation.

A string, C, has a loop, *f*, at one end to engage over the end-block of the series, and then the string is carried through the other hooks, and fastened to the opposite end-one. This connecting string may be of any suitable construction; in Fig. 7, it is shown made of two strands, *g*, bound together, leaving a looped end exposed at one end to engage one end-hook, and the binding, *j*, left off at intervals near the other end, so as to expose slits, *h*, between the strands for engagement with the other end-hook. In Fig. 8, the connecting string is shown of a single strand, with the loop, *f*, formed at one end by knotting the string, and with a series of knots, *i*, formed near the opposite end to engage the end-hook.

It will now be seen that with my improved fastening at the opening in a pair of corsets, gloves, shoes or other article of apparel, a draft on a single string which has been fastened to an end-hook and carried through the other hooks as described, will draw the sides of the opening together by pulling the projecting looped parts, *e'*, of the hooks into line. The arrangement is simple, inexpensive and easily operated.

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

A fastening device consisting of a pair of stay-plates or strips having means of attach-

ment and provided near their confronting
edges each with a series of holes; a single
wire for each plate and comprising straight
portions fitting against the back-side of the
5 plate, and prongs extending through the
openings in the plate and formed into hooks
on the front side of the plate with shanks
which fit flat against the said front-side of the

plate; and a connecting string to fasten on the
end-hooks and pass through the other hooks. 10

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

JAMES M. CREWS.

Witnesses:

JNO. T. MADDOX,
I. PARKER DAVIS.