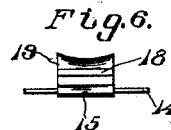
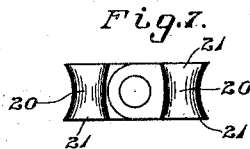
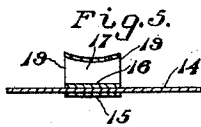
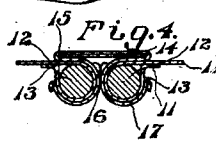
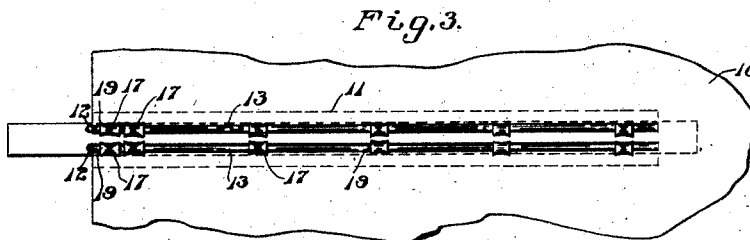
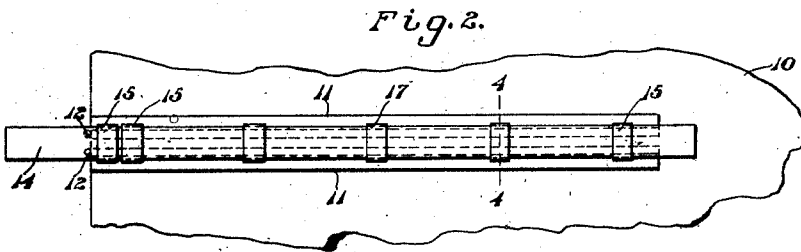
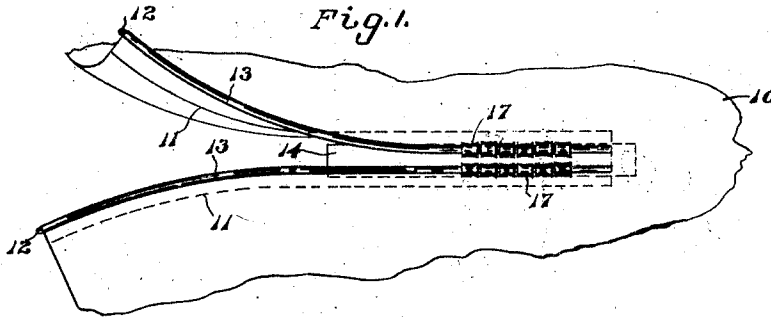


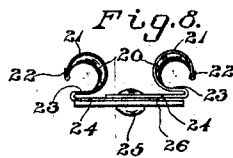
W. F. BOWEN.
PLACKET FASTENER.
APPLICATION FILED MAY 21, 1907.

1,043,753.

Patented Nov. 5, 1912.



Witnesses.
Raphael G. Blanc.
Frank W. Horsman



Inventor
William F. Bowen
By Henry J. Miller
att'y.

UNITED STATES PATENT OFFICE.

WILLIAM F. BOWEN, OF MELROSE HIGHLANDS, MASSACHUSETTS.

PLACKET-FASTENER.

1,043,753.

Specification of Letters Patent.

Patented Nov. 5, 1912.

Application filed May 21, 1907. Serial No. 374,973.

To all whom it may concern:

Be it known that I, WILLIAM F. BOWEN, of Melrose Highlands, county of Middlesex, and State of Massachusetts, have invented certain new and useful Improvements in Placket-Fasteners; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming part of this specification.

This invention has reference to improvements in placket fasteners, so called, whereby the edges of any opening may be drawn to closed positions and held.

One object of the invention is to so construct a placket fastener that the edges of the opening may be drawn together progressively, by the action of a drawing member and certain slides attached to such member.

Another object of the invention it to so construct a placket fastener comprising slides engaging suitable guides on the edges of an opening that the drawing apart of the edges of the opening, at one end, will effect the sliding of said slides on their guides.

Another object of the invention is to improve the construction of the slides.

The invention consists in the peculiar construction of the slides.

The invention also consists in the arrangement of the slides on their drawing member.

The invention also consists in such other novel features of construction and combination of parts as shall hereinafter be more fully described and pointed out in the claims.

Figure 1, represents a view of portions of a garment, having a longitudinal opening with the improved placket fastener, or closer, attached thereto, the slides being in position to which they are moved by the spreading apart of the edges of the opening at one end. Fig. 2, represents a reversed view of the same in the closed position. Fig. 3, represents a front view of the same in the closed position. Fig. 4, represents a cross sectional view taken on line 4-4 Fig. 2. Fig. 5, represents a longitudinal section of one of the slides and a part of the drawing member. Fig. 6, represents a side elevation of the same. Fig. 7, is a plan view showing a modified construction of one of the slides. Fig. 8, represents an end view of the same.

As shown in the drawing in its preferred

form 10 indicates a portion of a garment, or other article, having an opening and preferably of flexible material. To the edges of the opening are secured the strips 11-11 having cords 12-12, or other suitable enlarging means, over which the edge portions 13-13 of said strips are secured to form guides of suitable cross sectional shape to receive slides and to retain said slides against lateral strain.

At one end of the opening is secured the drawing member or tape 14 furnished with a series of guides having back plates 15, inwardly turned members 16-16 whereby the drawing member 14 is clamped against the back plate 15, and outwardly curved slides 17-17 adapted to embrace the guides formed by the cords 12-12 and their covering, the ends of which slides 17-17 are turned upward as at 18-18 to stiffen the same and the mouths of said guides being flared, or bugle shaped, as shown at 19-19.

In the modified form shown in Figs. 7 and 8 the slides 20-20 have flared ends 21-21 and turned up edges 22-22, and are bent outward at 23-23 and inward at 24-24 to form shanks which are pivotally secured together by the pivot 25 which pivot preferably extends through the drawing member 26.

When the placket or opening has its edges spread apart, as shown in Fig. 1 of the drawing, the edges of the opening may be drawn together by a longitudinal pull on the free end of the drawing member 14 whereby the slides 17-17 are drawn along their guides 13-13 to the position shown in Figs. 2 and 3. Said slides, in such movement, effect the drawing together of the guides 13-13 and hold the same from spreading. When it is desired to release the edges of the opening, to permit the same to spread, the ends of the guides 13-13 are pulled apart and the slides 17-17 are forced, by such spreading action of the guides, along said guides toward and, ultimately to the positions shown in Fig. 1.

It is found that the flared ends 19-19 of the slides 17-17 offer little resistance to the movement of said slides along the guides 13-13 and practice has demonstrated that, if the two slides 17-17 at the upper portion of the drawing member, be placed close together, the starting of the opening move-

ment is facilitated as, if the first slide is tipped, by unequal spreading strain on the guides 13—13, such tipping is so resisted by the associated slide, that the first slide resumes its sliding relation with the guides.

In some cases it is desirable to make use of the slides shown in Figs. 7 and 8 which are so pivoted together that the slides may yield independently to unequal spreading strain on the guides. This modified form however is more particularly designed for use as the first slide at the upper end of the placket.

The term upper end of the placket is designed to indicate that part of a placket or other opening to which spreading strain may be applied to effect the sliding of the slides along their guides. It is of course evident that the opening may be that of any article, and that said opening need not be spread from either end, but may be spread in the middle of its length if desired, as for instance, if the ends of cords to which the numerals 12—12 are applied were secured together the guides 13—13 could be spread sufficiently to effect the sliding of the slides 17—17.

Having thus described my invention I

claim as new and desire to secure by Letters Patent.

1. A fastener for a placket or other opening, having a pair of flexible guides, comprising a drawing member and a series of slides, secured at intervals along said member and engaging said guides, two of said slides being secured in close proximity whereby the tipping of one of said slides, by irregular opening strain on said guides, is resisted by the associate slide.

2. A fastener for a placket or other opening, having a pair of guides comprising a drawing member and a series of slides disposed at intervals along said member and slidably engaging said guides, one of said slides having a pair of tubular guide engaging members furnished with shanks pivotally secured together, whereby said guide engaging members may yield independently, as and for the purpose described.

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

WILLIAM F. BOWEN.

Witnesses:

HENRY J. MILLER,
BLANCHE L. GILBRIDE.