

No. 833,501.

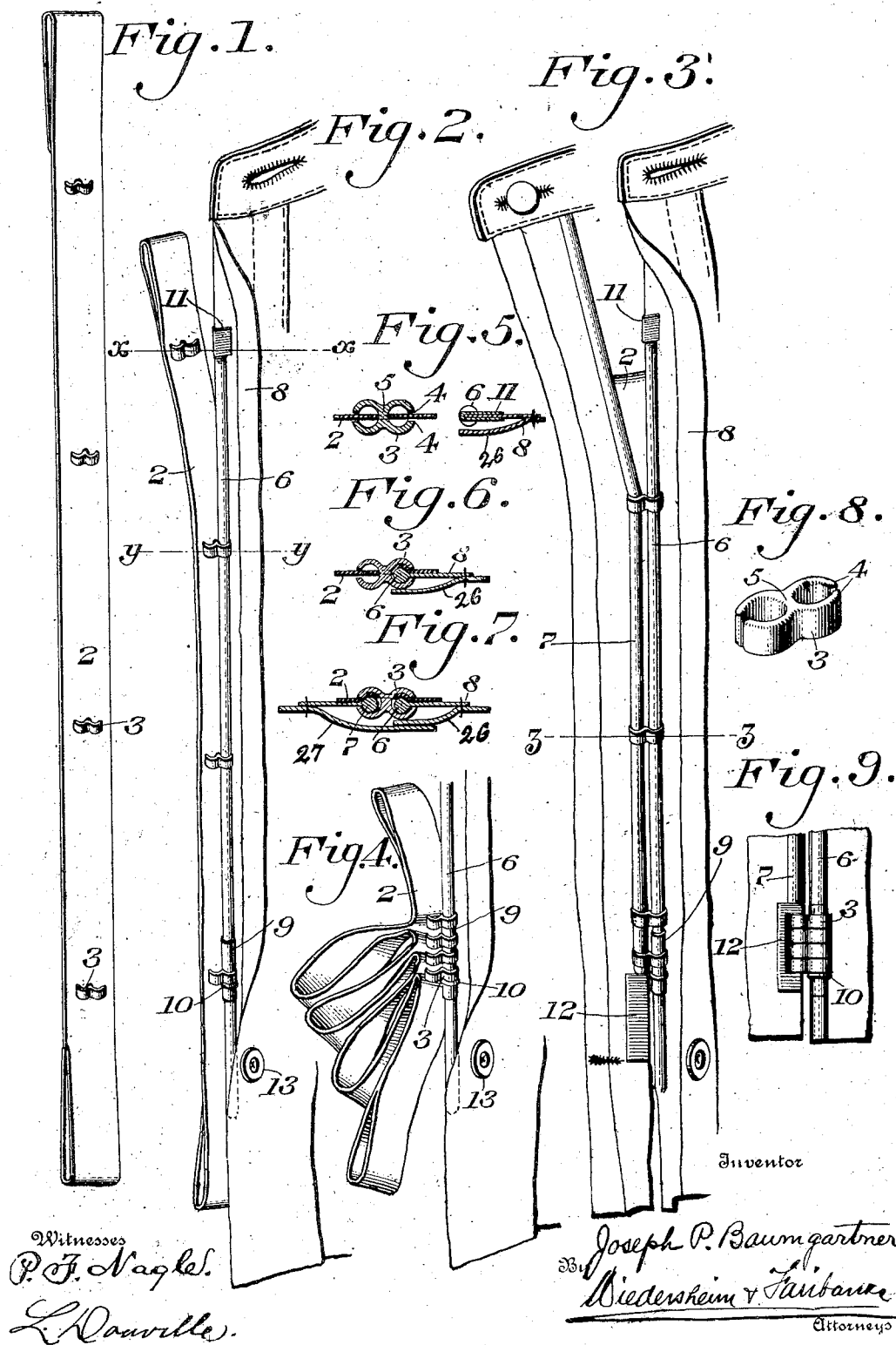
PATENTED OCT. 16, 1906.

J. P. BAUMGARTNER.

PLACKET CLOSER.

APPLICATION FILED JUNE 17, 1905.

2 SHEETS—SHEET 1.



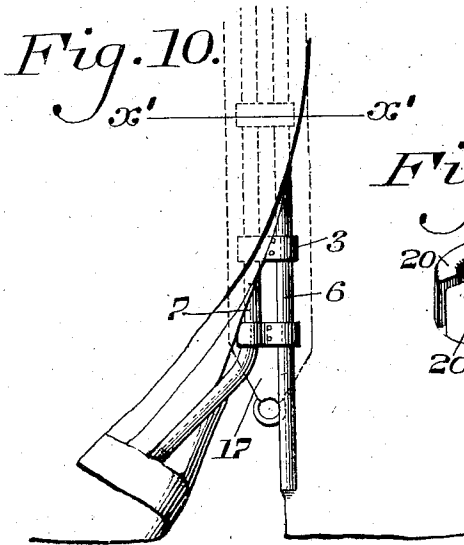
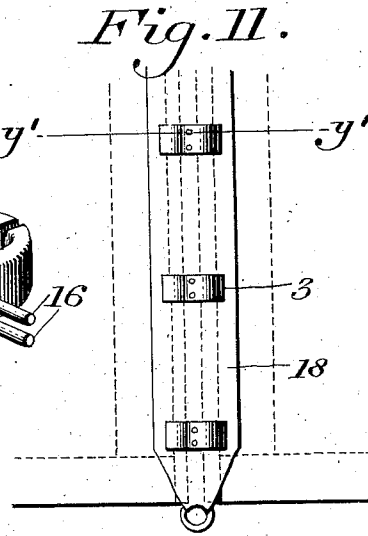
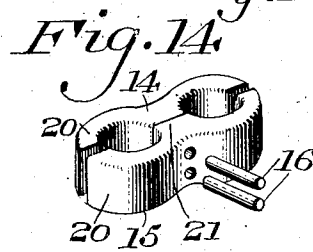
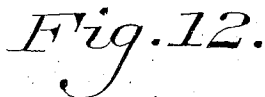
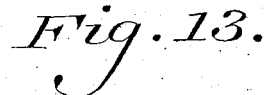
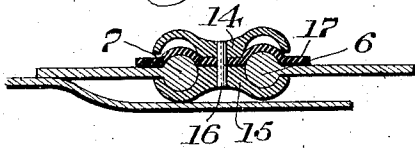
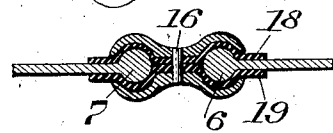
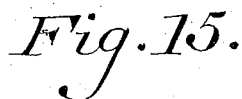
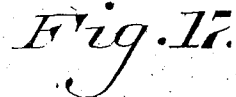
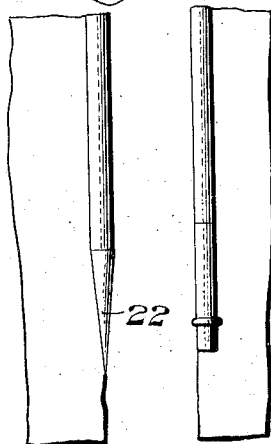
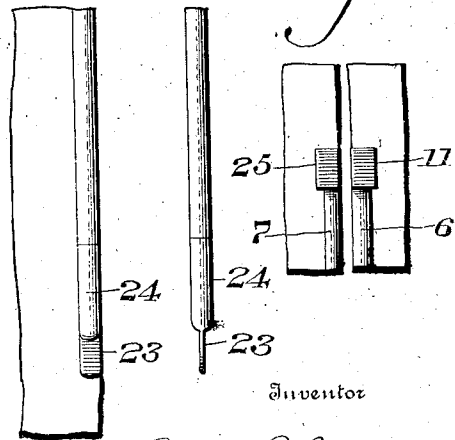
No. 833,501.

PATENTED OCT. 16, 1906.

J. P. BAUMGARTNER.
PLACKET CLOSER.

APPLICATION FILED JUNE 17, 1905.

2 SHEETS—SHEET 2.



Inventor

Witnesses

P. F. Nagle.
L. Douville.

Joseph P. Baumgartner
By Wiederheim & Faubus.
Attorneys

UNITED STATES PATENT OFFICE.

JOSEPH P. BAUMGARTNER, OF PHILADELPHIA, PENNSYLVANIA,
ASSIGNOR OF ONE-HALF TO WILLIAM I. FORBES, OF PHILA-
DELPHIA, PENNSYLVANIA.

PLACKET-CLOSER.

No. 833,501.

Specification of Letters Patent.

Patented Oct. 16, 1906.

Application filed June 17, 1905. Serial No. 265,696.

To all whom it may concern:

Be it known that I, JOSEPH P. BAUMGARTNER, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Placket-Closer, of which the following is a specification.

My invention consists of a new and useful closer embodying a clip and flexible support therefor, and guides on the sides of a base or holder with which said clip slidably engages, and means on said guide for preventing improper movement of said clip in one direction, and means for permitting the release of the clip from the guides when desired, whereby the closer may be removed from the garment or other article.

It further consists of novel details of construction, all as will be hereinafter set forth.

Figure 1 represents a perspective view of a closer embodying my invention in detached position. Fig. 2 represents a perspective view showing the same partly in position on one side of the opening of a shirt-waist. Fig. 3 represents a perspective view showing the device in a certain position connected with both sides of the opening of the shirt-waist. Fig. 4 represents a perspective view showing the device in its lowermost position on one side of the opening of the shirt-waist. Fig. 5 represents a sectional view on line *xx*, Fig. 2. Fig. 6 represents a sectional view on line *yy*, Fig. 2. Fig. 7 represents a sectional view on line *zz*, Fig. 3, showing the outer flap of the garment in closed position. Fig. 8 represents a perspective view of one of the clips in detached position. Fig. 9 represents a front elevation showing the device in its lowermost position upon two sides of the shirt-waist opening. Fig. 10 represents a side elevation of a portion of the device, showing the same as applied to a different opening, such as a tent-opening. Fig. 11 represents an elevation of a portion of a device of slightly-different construction. Fig. 12 represents a sectional view on line *x'x'*, Fig. 10. Fig. 13 represents a sectional view on line *y'y'*, Fig. 11. Fig. 14 represents a perspective view of a form of clip employed, showing the fastening means in detached position. Figs. 15 and 16 represent side elevations of modified forms of

guides which may be employed. Fig. 17 represents a side elevation of a modified form of guides which may be employed.

Similar numerals of reference indicate corresponding parts in the figures.

Referring to the drawings, 1 designates a closer for a placket or other opening embodying a flexible support 2, adapted to receive and hold the clips 3, said clips being held or seated in suitable openings in the flexible support and having the jaws 4, which are uniform or matched on both sides, whereby either side may be adapted for use, and between the jaws extends an intermediate cross-bar or neck 5, which joins said jaws. Situated on the edges of the walls of the opening which it is desired to close—as for example, a shirt-waist—are guides 6 and 7, with which the clips slidably engage, said guides being on the opposite edges of the shirt-waist 8, the guide 6 having adjacent its lower portion the metal casing or tube 9 of substantially the same size as the guide, which tube has a stop 10 thereon, the said stop 10 limiting the downward movement of the clips 3, which are in engagement with the guide 6, as the jaws 4 cannot pass the said stop.

The guides are formed in any desirable manner and in the present instance by an enlargement of the material forming the flap, which is suitably connected with the shirt-waist. At a suitable point adjacent the upper portion of the shirt-waist the guide 6 terminates and is provided with a flattened plate 11, which is of such size as to freely pass between the jaws 4 of the clips 3. The guide 7 on the opposite side of the shirt-waist is provided adjacent its lower end with a flat plate 12, which is also of such thickness as to freely pass between the opening between the jaws 4 of the clips, so that the same can be removed from this side of the waist.

In Figs. 5, 6, and 7 the ends 26 and 27 of the flaps form a covering for the closing device. The clips may be secured to the supports in any desired manner, and in the form shown in the figures on Sheet 1 the clips are placed in the holes in the face by pushing one of the side walls of the jaws of the clips through the one of the holes and then taking hold of the side of the tape and stretching it

so that the side wall of the opposite jaw passes through the hole, thus leaving the cross-bar or neck 5 in the hole, as clearly seen in Figs. 1, 2, and 5.

- 5 The flattened structures 11 and 12 permit free movement of the same relatively to the jaws 4 and between them. The clips 3 can be withdrawn from these structures sidewise—that is, are laterally movable thereon to traverse the lesser dimension of the plates and need not be withdrawn over the ends of the plates. Whether the plates or the clips 3 be actually moved to effect this withdrawal is of course immaterial.
- 5 The upper end of one guide at 11 and the lower end of the other guide at 12 are herein considered "remote ends" of these several guides to distinguish from the ends which are in proximity to each other.
- 10 The operation of the closer will be readily understood, and although the same may be adapted for various uses I have shown it in conjunction with a shirt-waist and have described the operation on such a garment, the clips 3 being first brought into engagement with the guide 6—for example, by passing the plate 11 between the openings of the jaws 4 and then sliding said jaws into said guide 6. The position of the same is shown in Fig. 2, the uppermost clip not yet having been placed in engagement with the said guide 6. The opposite edge of the shirt-waist is provided with the guide 7, and, the garment having been put on by the wearer,
- 5 the edges are brought together, the clips being placed in their lowermost position on the guides 6, as best seen in Figs. 4 and 9, the stop 10 preventing the improper movement of said clips. The plate 12 of the guide 7 is now brought opposite to the clips and passed between the jaws 4 thereof, as shown in Fig. 9, after which the side of the waist having the plate 12 thereon is pulled down below the stop, thus throwing the clips onto the rounded guide 7. (See also lower part of Fig. 3.)
- 5 The waistband of the shirt-waist is provided on one side with a button 13 and the other side with a buttonhole, and when buttoned it will be seen that the plate 12 is below the stop 10, and therefore the clips cannot reach the said plate 12. By raising the support 2 the jaws are caused to engage with the guide 7 and the edges of the shirt-waist are held in closed position.
- 5 The position the clips assume in the act of being raised will be seen in Fig. 3. In order to open the waist, the flexible support is pulled downward and the plate 12 is brought into line with the openings of the jaws, when the same can pass the opening between the jaws and the waist can be opened, the stop 10 permitting the removal of the fastening device from one side of the waist only. When it is desired to remove the closer to send the
- 5 waist to the laundry, the said fastening de-

vice can be quickly removed by pulling the same upward, and as each of the clips reaches the plate 11 the same can be removed in turn. The fastening device may be used again when the waist is returned from the laundry.

70 It will be evident that the device just described will be suitable for closing of any opening, such as shirt-waist plackets or the opening of a tent, and in Figs. 10 and 11 I have shown the same as applied thereto. In this instance the clip is made larger and 75 formed of the separable pieces 14 and 15, connected together in any suitable manner, as by a pin or pins 16. In the construction seen in Figs. 10 and 12 I have mounted the 80 clips upon a single tape or flexible support 17, the same being placed between the separable parts 14 and 15 and pin 16 passing there-through, while in Figs. 11 and 13 I have shown a double flexible support 18 and 19, 85 which separate in the same manner as previously described. The sections 14 and 15 are similar or matched, having the curved portions 20 and the central portion 21, which are adapted to be situated opposite to each 90 other and of such size that when the sections are joined the curved portions 20, which form the jaws, are separated a certain distance.

In lieu of the flat plates 11 and 12 I may 95 provide one of the guides with a pointed end 22, as shown in Fig. 15, or I may make a flattened portion 23, of metal, connected with a tube 24, as shown in Fig. 16, the operation being the same as previously described. 100

In Fig. 17 I have shown another construction or arrangement showing a modification of the upper part of the guides 6 and 7 in Fig. 3, the modification resulting in the arrangement of a plate 25 on guide 7 opposite plate 11, an arrangement of the plates which will come within the scope of my invention. In this form the guide 6 is provided with a plate 11 and the guide 7 is provided with a plate 25, so that the clips can be removed laterally on 110 said plates. Complete removal from both guides is by this means made possible in the same position of the clip.

By the terms "base" or "holder" I refer to any article or material the parts of which 115 it is desired to open or close and provided at the sides of said parts with ribs or guides, as 6 and 7.

It will be evident that various changes may be made by those skilled in the art which 120 will come within the scope of my invention, and I do not, therefore, desire to be limited in every instance to the exact construction herein shown and described.

Having thus described my invention, what 125 I claim as new, and desire to secure by Letters Patent, is—

1. In a closer, a flexible support, clips carried by said support, guides adapted to be 130 secured to the sides of a base or holder and

with which guides said clips slidingly engage and said guides having means on the ends whereby said clips may be connected with and disengaged from said guides laterally.

2. In a closer, a flexible support, clips carried by said flexible support, guides adapted to be secured to the sides of a base or holder and with which guides said clips slidingly engage and a plate adjacent the ends of said guides whereby said clips may be connected with and disengaged from said plates laterally.

3. In a closer, guides adapted to be secured to the sides of a base or holder, a stop on one of said guides, plates adjacent an end of each of said guides, a flexible support, and clips each formed of jaws engaging and joining the guides, said jaws slidingly engaging said guides and movable laterally upon said plates.

4. In a closer, a flexible support, clips each formed of jaws, guides adapted to be secured to the sides of a base or holder and with which said jaws slidingly engage, a stop on one of said guides and a plate on each of said guides, said plates being adapted to pass said jaws laterally whereby said clips may be caused to engage with and be disengaged from said guides.

5. In a closer, of the character stated, a clip formed of sections, means for connecting said sections whereby jaws are formed joined by an intermediate neck, and a piece of flexible material seated between said sections and which is adapted to support said clips.

6. In a closer of the character stated, a clip formed of separable sections, means for securing said sections together and a piece of

flexible material secured between said sections and serving to support the clips.

7. In a closure of the character stated, guides adapted to be secured to the sides of a base or holder, a clip formed of separable sections, means for securing said sections together and two pieces of flexible material secured between said sections serving to support the clips and to surround the guides on each side thereof.

8. In a closure, a flexible support, clips each forming jaws, guides adapted to be secured to the sides of a base or holder and with which said jaws slidingly engage, plates on each of said guides, said plates being adapted to pass laterally said jaws, whereby said clips may be caused to engage with and be disengaged from said guides.

9. In a closer, a flexible support, clips carried by said support, guides adapted to be secured to the sides of a base or holder and with which guides said clips slidingly engage, said guides having means adjacent the remote ends thereof whereby said clips may be connected with and disengaged from said guides laterally.

10. In a closer, a flexible support, clips carried by said flexible support, guides adapted to be secured to the sides of a base or holder and with which guides said clips slidingly engage and a plate adjacent the remote ends of said guides whereby said clips may be connected with and disengaged from said guides laterally.

JOSEPH P. BAUMGARTNER.

Witnesses:

WM. CANER WIEDERSEIM,
C. D. McVAY.