

No. 664,685.

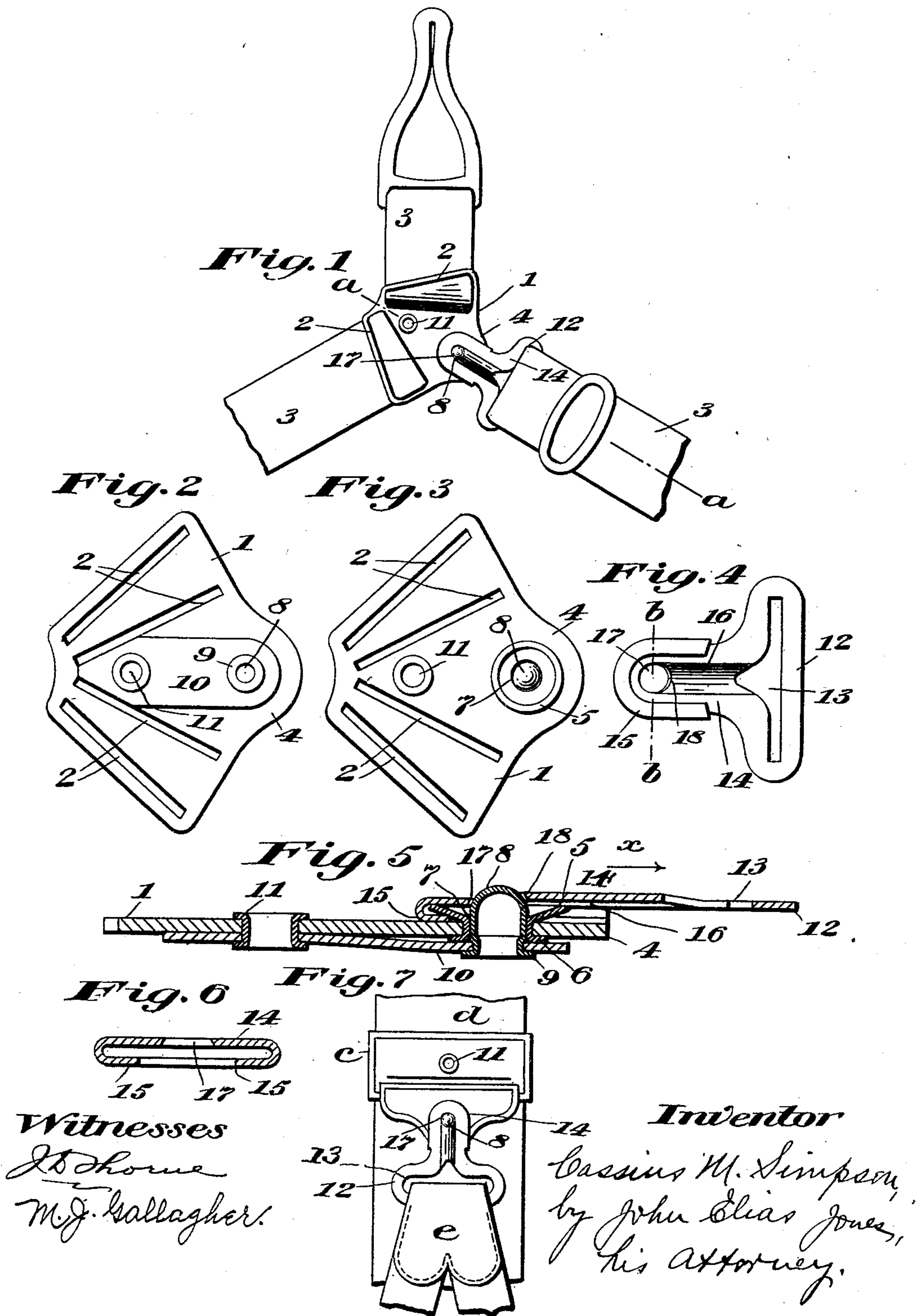
Patented Dec. 25, 1900.

C. M. SIMPSON.

CLASP FOR GARMENT SUPPORTERS OR THE LIKE.

(Application filed Aug. 11, 1900.)

(No Model.)



UNITED STATES PATENT OFFICE.

CASSIUS M. SIMPSON, OF CINCINNATI, OHIO.

CLASP FOR GARMENT-SUPPORTERS OR THE LIKE.

SPECIFICATION forming part of Letters Patent No. 664,685, dated December 25, 1900.

Application filed August 11, 1900. Serial No. 26,559. (No model.)

To all whom it may concern:

Be it known that I, CASSIUS M. SIMPSON, a citizen of the United States of America, and a resident of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Clasps for Garment-Supporters or the Like, of which the following is a specification.

This invention relates to certain improvements in clasps or fastenings such as are adapted for use in connection with hose and other garment supporters, suspenders, and the like; and the object of the invention is to provide a clasp or fastening of this general character which shall be simple and inexpensive in construction and readily operated to securely hold or to release the parts in connection with which the device is used.

The invention consists in certain novel features of the construction, combination, and arrangement of the several parts of the improved clasp or fastening, whereby certain important advantages are attained and the device is made simpler, cheaper, and otherwise better adapted and more convenient for use, all as will be hereinafter fully set forth.

The novel features of the invention will be carefully defined in the claims.

In the accompanying drawings, which serve to illustrate my invention, Figure 1 is a view showing the application of a clasp or fastening made according to my invention to a hose-supporter. Fig. 2 is an under side view of the main frame or body portion of the fastening detached and enlarged; and Fig. 3 is a view similar to Fig. 2, but showing the face or outer side of said main frame. Fig. 4 is a view showing the under side of the catch-plate of the improved clasp or fastening also detached and enlarged. Fig. 5 is an enlarged sectional view taken through the improved clasp or fastening in the plane indicated by the line *a a* in Fig. 1. Fig. 6 is an enlarged sectional view taken through the catch-plate of the improved fastening in the plane indicated by line *b b* in Fig. 4. Fig. 7 is a view showing the improved clasp or fastening adapted for use in connection with a suspender-end.

Referring, primarily, to Figs. 1 to 6, 1 indicates the main frame or body portion of the device, made from thin sheet metal and pro-

vided with slitted openings 2 2, formed in it for the passage of the web 3 of the hose-supporter, the said web being adapted to be slipped through said openings 2 in a well-known way in order to adjust the position of the clasp or fastening on the web.

The main frame or body portion 1 is formed with a rounded tongue 4, projected from one of its edges and provided on the outer face of the said main frame with a circular flattened head or disk 5, the edges of which are undercut or separated from the surface of the frame. The said head or disk 5 is preferably formed, as shown in Fig. 5, with a tubular shank 6, which is passed through an opening produced in the tongue 4 and is expanded beneath said tongue in order to securely hold the head in place thereon. In this way, it will be seen, a bore or passage 7 is produced centrally in the head 5 and extending through the main frame, being adapted to receive a hollow locking-pin 8, preferably made, as indicated in the drawings, in the nature of a hollow rivet, the outer end of which is closed and rounded and the inner end 9 of which is passed through an opening formed in one end of a spring-arm 10, held on the under side of the main frame 1 by means of a rivet 11 or the like. The lower end 9 of the locking-pin 8 is held in place upon the spring-arm 10 by being expanded upon the under side of the said arm, as clearly shown in Figs. 2 and 5, and it will be seen that owing to the flexibility of the spring-arm 10 the locking-pin 8 is permitted to play freely in the central bore or passage 7 of the head 5, its normal position being, as shown in Fig. 5, with its rounded extremity protruded slightly beyond the said head 5.

12 indicates the catch-plate of the improved clasp or fastening, this part being also formed from thin sheet metal and provided with a slitted opening 13 for the passage of the web 3. The catch-plate 12 is also provided with a tongue 14, projected from its side and formed with a rounded end portion made of greater width than the part of the tongue which joins the slitted body of the catch-plate, the edge portions 15 of said wider rounded end portion being bent over and returned upon themselves and being adapted to take over the undercut head or disk 5, the diameter of which

is such as to permit the head to be snugly received within the chamber formed between said bent edges 15. The bent edges 15 are also extended around the rounded extremity of tongue 14 to prevent the escape of the head or disk 5 from said chamber. In the catch-plate is slipped over the head 5, and said groove or channel communicates with or leads into an opening 17, produced centrally in the rounded extremity of the tongue 14, in which opening the rounded end of pin 8 is adapted to be pressed by the action of the spring-arm 10 when the catch-plate is engaged with and slipped over the head 5 on the main frame. To permit the catch-plate to be readily disengaged from the locking-pin 8, I provide the opening 17 with a beveled-edge wall 16, adapted to permit the rounded end of said pin to ride freely out of said opening into the groove or channel 16 when slight pressure is applied to the catch-plate.

In using the improved clasp or fastening the catch-plate 12 is applied to the main frame 1 with the bent edges 15 of its tongue 14 engaging the undercut edges of head 5, the chamber between said edges 15 being open at one end for the free entry and withdrawal of said head by the slipping movement of the catch-plate. Upon movement of the catch-plate 12 in the direction of arrow *x* the head 5 will pass along beneath the tongue into said chamber, the locking-pin 8 traversing the groove or channel 17 and being pressed down in the bore 7, so as to flex the spring-arm 10. When the head 5 comes to a stand at the rounded end of the tongue 14, it will be held against further movement by the end wall of the chamber of the tongue, and the locking-pin 8 will be pressed outward by the spring-arm 10 and will enter the opening 17 in the tongue, so as to securely hold the parts of the clasp or fastening against accidental disengagement and also to permit the catch-plate to turn or swivel upon the head 5 to better accommodate the device for use. When it is desired to disengage the catch-plate 12 from the main frame, the plate 12 is moved in a direction contrary to that indicated by the arrow *x*, so as to cause the rounded end of locking-pin 8 to ride up the beveled edge 18 of opening 17 into groove or channel 16, whereby the spring-arm 10 is flexed and whereupon the catch-plate may be freely moved along to disengage it from the head 5.

From the above description of my improvements it will be seen that the improved clasp or fastening is of an extremely simple and inexpensive nature and is especially well adapted for use, since it permits of readily and conveniently securing its parts together and holding them against accidental disengagement without lessening the adaptability of the parts for disengagement when desired.

It will also be apparent from the above de-

scription that the device is susceptible of some modification without material departure from the principles and spirit of the invention and for adapting it for different uses, and for this reason I do not wish to be understood as limiting myself to the precise form and arrangement of the several parts herein set forth nor to the exclusive employment of the device in connection with garment-supporting devices.

As an example of the use of the improved clasp in connection with a suspender cast-off I have shown the construction seen in Fig. 7, wherein the general form of the catch-plate 12, above described, is preserved, this part being connected to the suspender-end *e*, while the form of the main frame is modified to combine it with a buckle *c*, adjustable upon the suspender *d* in a well-known way.

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

1. A clasp or fastening comprising two parts, one part having a chamber and the other part having a projecting portion and a locking device movable relatively to said projecting portion, the projecting portion being adapted for engagement in said chamber and the locking device being adapted for engagement with the part in which the chamber is formed to hold said projecting portion in the chamber, substantially as set forth.

2. A clasp or fastening comprising two parts, one part having a chamber and the other part having a projecting portion and a locking device, the projecting portion being adapted for engagement in said chamber and the locking device being arranged concentrically with respect to said projecting portion and being movable relatively thereto and being also adapted for engagement with the part in which the chamber is formed to hold the projecting portion in said chamber, substantially as set forth.

3. A clasp or fastening comprising two parts, one part having a chamber and the other part having a projecting portion and a locking-pin, the projecting portion being adapted for engagement in said chamber and having a bore formed in it and the locking-pin being movable in said bore with one end protruding therefrom for engagement with the chambered part of the clasp or fastening, substantially as set forth.

4. A clasp or fastening comprising two parts, one part having a chamber and the other part having a projecting portion and a locking-pin and being provided with a spring-arm on which said locking-pin is mounted, the projecting portion being adapted for engagement in the said chamber and having a bore formed in it and the locking-pin being movable in said bore with one end protruding therefrom for engagement with the chambered part of the clasp or fastening, substantially as set forth.

5. A clasp or fastening comprising two parts, one part having a chamber formed with

overhanging edges and provided with an opening and the other part having a head provided with undercut edges and adapted for insertion in said chamber and a locking device
5 movable relatively to the head for engagement with the opening of the chambered part, substantially as set forth.

6. A clasp or fastening comprising two parts, one part having a chamber formed with
10 overhanging edges, a central channel and an opening into which said channel leads and

the other part having an undercut head for insertion in said chamber and a spring-actuated locking device adapted to traverse said channel and to engage said opening, substantially as set forth. 15

Signed by me at Cincinnati, Ohio, this 9th day of August, 1900.

CASSIUS M. SIMPSON.

Witnesses:

JOHN ELIAS JONES,
M. J. GALLAGHER.