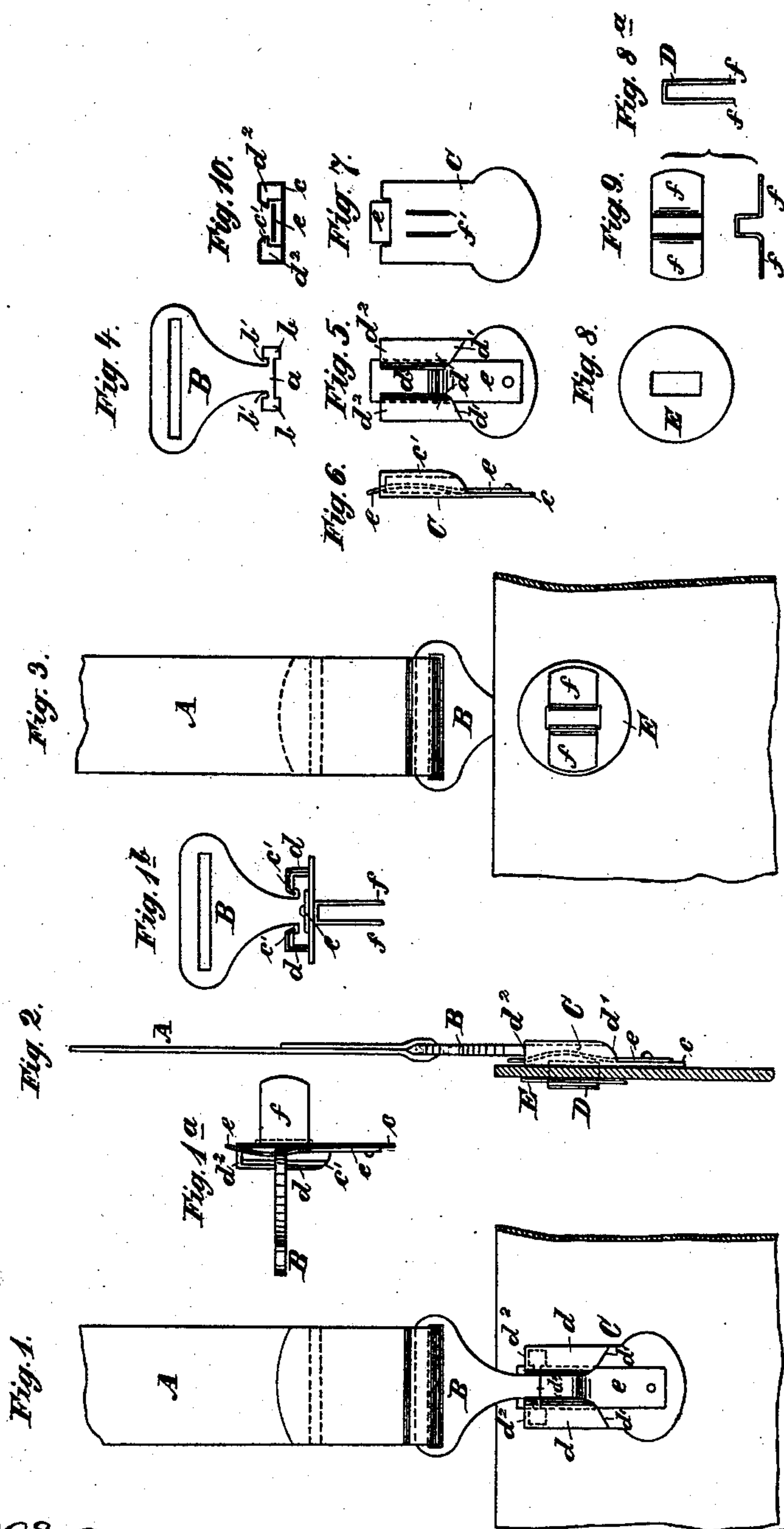


(No Model.)

H. FRIED.
SUSPENDER FASTENING.

No. 381,833.

Patented Apr. 24, 1888.



Witnesses
J. A. Rutherford.
Robert G. Pratt.

Inventor.
Hermann Fried.
By James L. Norris
Atty.

UNITED STATES PATENT OFFICE.

HERMANN FRIED, OF CANNSTADT, WÜRTEMBERG, GERMANY.

SUSPENDER-FASTENING.

SPECIFICATION forming part of Letters Patent No. 381,833, dated April 24, 1888.

Application filed February 20, 1888. Serial No. 264,627. (No model.)

To all whom it may concern:

Be it known that I, HERMANN FRIED, of the city of Cannstadt, in the Kingdom of Würtemberg, in the German Empire, have invented a certain new and useful Improvement in Suspenders, of which the following is a specification, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention relates to an improvement in suspender-fastenings; and its object is to dispense with the buttons and button-holes or similar fastening appliances as now generally employed for connecting the suspenders with the trousers.

In the accompanying drawings, forming part of this specification, Figure 1 is a front view of my improved fastening connecting the suspender and the waistband of the trousers, the greater part of the said suspender and waistband being broken away. Fig. 1^a is a detached side view of the improved fastening with one of the lateral guiding-laps of the retaining-case cut away, and illustrating the manner in which the fastening piece or holder is introduced into and connected with the said case. Fig. 1^b is an end view thereof. Fig. 2 is a side view, and Fig. 3 a rear view, of Fig. 1. Fig. 4 illustrates the fastening piece or holder. Figs. 5, 6, and 7 are front, side, and rear views, respectively, of the retaining-case. Figs. 8, 8^a, and 9 show the means by which the said case is applied to the waistband; and Fig. 10 is an end view of the case.

My improved suspender-fastening consists of two parts—that is to say, of the holder B, applied to the suspender A, and of the case C, made fast to the waistband of the trousers. The holder B consists of a heart-shaped plate of galvanized iron or other suitable metal, and is fixed to the suspender A by passing the end of the latter through the broader slotted part of the holder, and forming a loop of the end of the suspender, which is united by means of sewing or otherwise. The narrow end of the holder is provided with two lateral projections, *b*, by means of which are obtained the depression *a* at the lower end of the holder B, and two guiding-grooves, *b'*, between the body of the latter and its projections *b*.

C is the retaining-case, made fast to the waistband of the trousers, and consisting of a plate, *c*, of galvanized sheet-iron or other suitable metal, provided with two lateral overlapping guide-flanges, *d*, which are open at their lower ends, *d'*, while their upper ends, *d*², are bent to close the guiding-space formed by the laps or flanges. Between the latter remains an open space, *d*³, and below this open space there is fastened to the flat part of the plate *c*, by means of a rivet or otherwise, a flat spring, *e*, which, near its middle, is vaulted or bent up. The adjacent rims *c'* of the guide-laps *d* are turned down. (See Fig. 10.)

The width of the flat spring *e* corresponds to that of the depression *a* in the holder B, while the turned-down rims *c'* of the laps *d* are arranged in the same distance from each other as the two guiding-grooves *b'*, and the projections *b* are made of such size as to fit loosely within the guiding-space formed by the plate *c* and its overlapping flanges *d*. In order to fasten the case C to the trousers, the former is provided with two slots, *f'*, Fig. 7, and the legs *f* of the staple D are passed through these slots and the cloth of the waistband, at the rear side of which the disk E, Fig. 8, having its central part cut away, is shoved over the projecting legs *f*, which are then bent sidewise, and thus will hold the disk E, the waistband, and the case C together nicely, as is best shown in Fig. 3.

Now, in order to connect the trousers with the suspenders, the holder B is placed in a position rectangular or nearly rectangular to the plane of the plate *c*, so that the projections *b* will be in front of the open ends *d'* of the guiding-spaces formed by the laps *d* and the plate *c*, while the depression *a* of the holder will lie over the spring *e* and the guiding-grooves *b'* be entered by the turned-down rims *c'* of the laps *d*. The lower part of the holder B, while the latter remains in this position and is free to move through the open space *d*³, is slid into the case C, as illustrated in Figs. 1^a and 1^b, until it has passed over the bent-up or vaulted part of the flat spring *e*, and will strike against the closing upper ends, *d*², of the plate *c*, whereby the movement of the holder is arrested, which is then turned upward into a position

parallel with that of the plane of the plate *c*. The projections *b* of the holder B, being thus directly below and in contact with the closed ends *d'*, will hold up the case C and the trousers 5 connected therewith, as is best to be seen from Fig. 1 of the drawings.

To detach the suspenders from the trousers it is necessary only to turn down the holder B in its position rectangular to the plate *c* again 10 and to slide it out of the case C in a direction opposite to that before described.

It will be seen that the suspender cannot be detached spontaneously from the trousers, because the lower part of the gradually-broaden- 15 ing holder B cannot be removed from the retaining-case C so long as the holder B is turned in a position nearly parallel to that of the plane of the plate *c*, the vaulted part of the flat spring *e* acting against the lower surface of the part 20 *a* of the holder B, retaining the latter likewise while in an inclined position and preventing

it from passing accidentally out from under the guide-laps *d*.

Having thus described my invention, what I claim as new, and desire to secure by Letters 25 Patent, is—

In a suspender-fastening, the slotted holder B, having at its lower end the projections *b*, the guiding-grooves *b'*, and the depression *a*, in combination with the retaining-case C, pro- 30 vided with a vaulted spring, *e*, and having the overlapping flanges *d*, forming guides open at one end and closed at the opposite end, substantially as and for the purpose specified.

In testimony whereof I have signed my name 35 to this specification in the presence of two subscribing witnesses.

HERMANN FRIED.

Witnesses:

LOUIS NEUHAEUSSER,
ALOIS GALLATIN.