

Oct. 26, 1943.

F. E. LOHSE

2,332,923

CONCEALED SLIDER STOP

Filed May 19, 1942

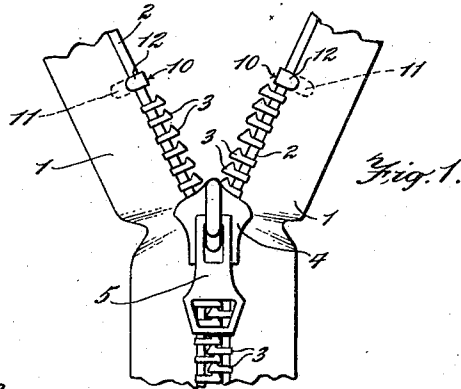


Fig. 1.

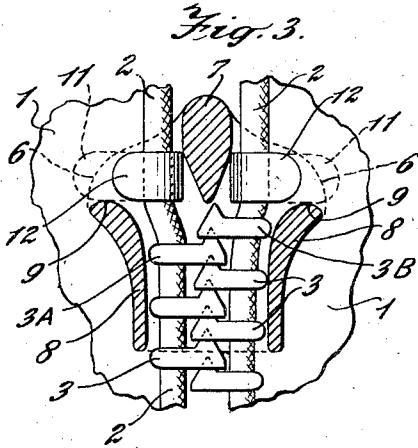


Fig. 3.

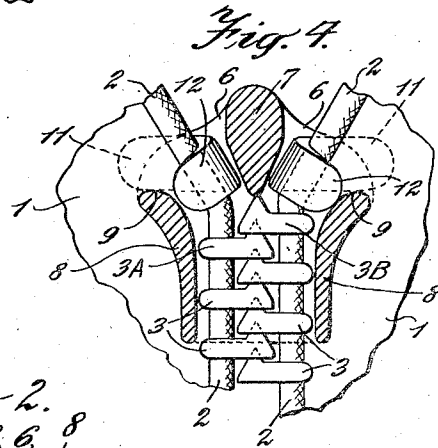


Fig. 4.

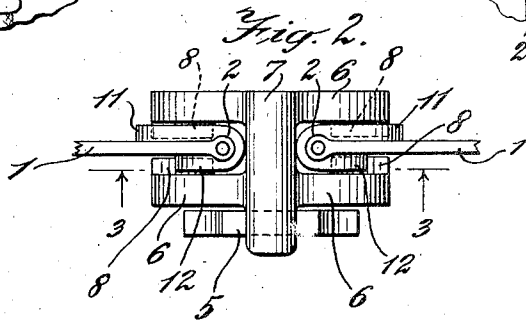


Fig. 2.

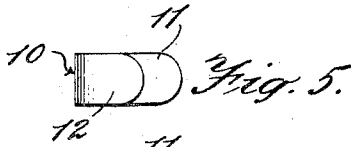


Fig. 5.

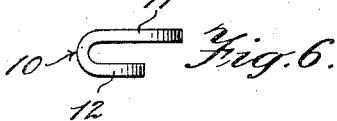


Fig. 6.

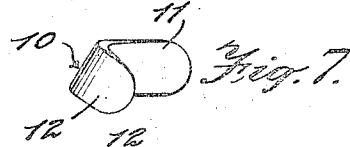


Fig. 7.

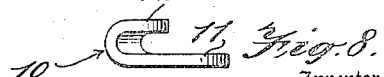


Fig. 8.

Inventor
Frederick E. Lohse

By *Gifford, Seull & Burgess*
Attorneys

UNITED STATES PATENT OFFICE

2,332,923

CONCEALED SLIDER STOP

Frederick E. Lohse, Barrington, R. I., assignor to
Crown Fastener Corporation, Warren, R. I., a
corporation of Delaware

Application May 19, 1942, Serial No. 443,547

1 Claim. (Cl. 24—205)

This invention relates to means for limiting the movement of sliders of separable slide fasteners.

It is an object of the invention to provide means for limiting the movement of a slider, i. e., a stop, which is concealed from view when the slide engages said means.

The invention will be illustrated by reference to the accompanying drawing, in which:

Fig. 1 is a plan view of an assembly showing fastening elements mounted on tapes, a slider movable longitudinally thereof to couple and uncouple said elements and a slider stop adjacent each terminal fastening element;

Fig. 2 is an end view of the slide engaging the stop means;

Fig. 3 is a section on line 3—3 of Fig. 2;

Fig. 4 is a section on line 3—3 of Fig. 2 showing a modified stop structure;

Fig. 5 is a plan view of the stop shown in Fig. 3;

Fig. 6 is an edge view of the same;

Fig. 7 is a plan view of the stop shown in Fig. 4; and

Fig. 8 is an edge view of the same.

The tapes 1 are provided with beaded edges 2.

The fastening elements 3 are mounted on and secured to the beaded edges. The slider 4, provided with pull tab 5, is mounted on the fastening elements 3 and moves longitudinally thereof to couple and uncouple those elements. The slider comprises walls 6, joined by a frog or web 7 and a pair of flanges 8 depending from each wall 4. The two pairs of flanges depending from the opposite walls of the slider are positioned in spaced relation, respectively, the spaces defined by said pairs of flanges serving to permit movement of the slider longitudinally of the tapes. The flanges have terminal edges 9 opposite the web 7.

Adjacent each terminal fastening element 3A, 3B is a slider stop indicated generally at 10 to limit the movement of the slider. The stop 10 may, as shown, be generally U-shaped. It has a pair of legs 11 and 12 of different lengths, joined at one end and defining therebetween a tape-receiving space. The stop may be mounted on the tape by crimping it thereon or otherwise securing it thereto.

Whatever may be the method of mounting the stop on the tape, each leg of the stop engages

an opposite side of the tape at the edge thereof. The longer member 11 of the legs extends transversely a sufficient distance to engage an edge 9 of the flange 8 of the slide when the latter is brought to bear against the stop. Any effort to move the slide beyond its limiting position will cause the leg 11 to jam between the edge 9 and the web 7 and effectively prevent movement of the slider. The longer leg 11 may extend transversely of the tape from the edge thereof a sufficient distance to extend beyond the boundaries of the slider body and then be visible. The length of the shorter leg 12 is, however, so limited that it does not extend beyond those boundaries and lies within the channel between the web 7 and flange 8. The short leg is therefore wholly concealed from view by the slider body when the latter has reached the limit of its movement determined by the stop action of the longer leg. Accordingly, the tapes carrying the stop are so mounted on the tape-carrying article that the side of the tape engaging the short leg 12 of the stop is normally exposed to view.

To further accentuate the concealment of the short leg 12 within said channel, it may be angularly and longitudinally offset in relation to the longer leg as shown in Figs. 4, 7, and 8.

I claim:

A slider stop for separable slide fasteners of the type described in which a series of fastening elements are mounted on a tape at the edge thereof and a slide is movable longitudinally thereof, said slide having a pair of walls and flanges depending therefrom defining a pair of channels, said flanges terminating in edges, said stop comprising a pair of legs of different lengths, joined at one end and defining a tape-receiving space between said legs; each leg engaging an opposite side of said tape at the edge thereof and adjacent to a terminal fastening element; the longer of said legs engaging only one side of the tape and extending from the edge of the tape transversely thereof a distance sufficient to engage a terminal edge of one of said flanges, the length of the shorter leg being so restricted that said leg lies wholly within one of said channels when the longer leg engages said edge.

FREDERICK E. LOHSE.