Oct. 7, 1958 G. H. RUDING ET AL 2,854,722

SLIDE ACTUATOR FOR SLIDE FASTENERS

Filed May 11, 1953

Fig. 1

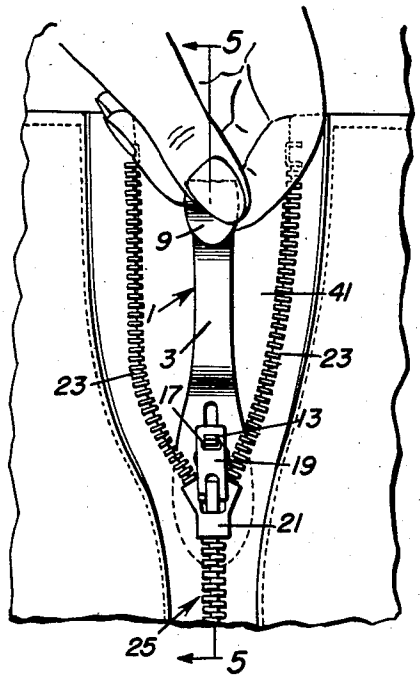


Fig. 3

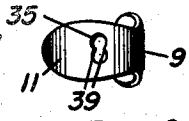


Fig. 2

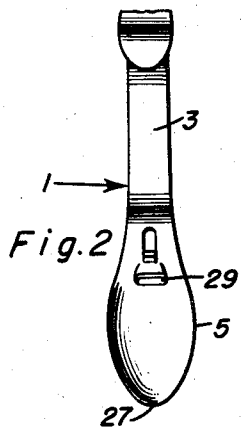


Fig. 4

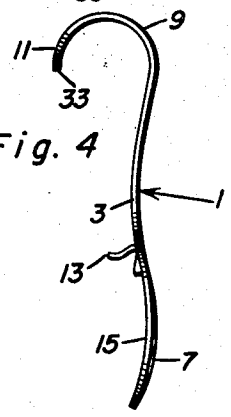


Fig. 6

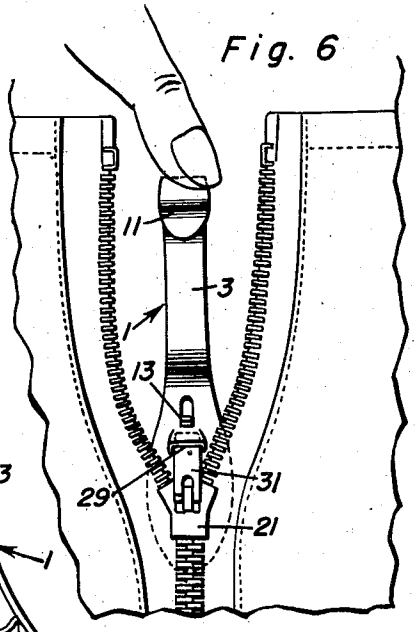


Fig. 7

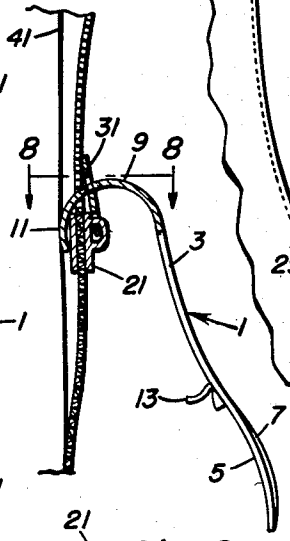


Fig. 5

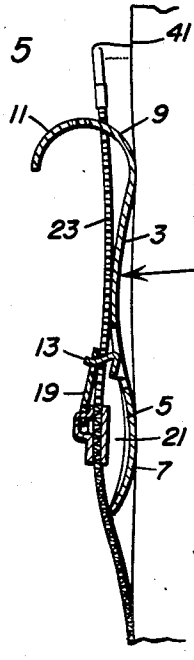
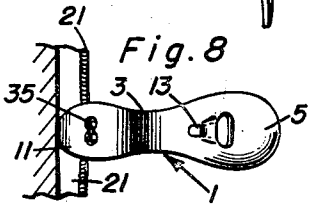


Fig. 8



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SLIDE ACTUATOR FOR SLIDE FASTENERS

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Application May 11, 1953, Serial No. 354,316

1 Claim. (Cl. 24—205.15)

Our invention relates to improvements in actuators for the slides of slide fasteners of the "zipper" type.

The primary object of our invention is to provide an efficient actuator designed for quick easy attachment to the tabs on the slides of such slide fasteners to push or pull the slides for opening or closing the fasteners while smoothing down material, or skin, under the slide fasteners to prevent pinching or catching of the material or skin in the fasteners during opening and closing thereof.

Another object is to provide an actuator for the above purpose which is adapted for attachment to either solid or apertured tabs of such slide fastener slides.

Still another object is to provide an actuator for the above purposes which will not catch in nor tear material under the slide fasteners and which is designed for very inexpensive production as an article of manufacture for the low price trade.

Other and subordinate objects, within the purview of our invention, together with the precise nature of our improvements will be readily understood when the succeeding description and claims are read with reference to the drawing accompanying and forming part of this specification.

In said drawing:

Figure 1 is a fragmentary view in front elevation illustrating one application and use of our improved actuator;

Figure 2 is a view in front elevation of the actuator detached;

Figure 3 is a view in end elevation of the same;

Figure 4 is a view in side elevation of the same;

Figure 5 is a view in longitudinal section taken on the line 5—5 of Figure 1;

Figure 6 is a fragmentary view in front elevation illustrating another application and use of the actuator;

Figure 7 is a fragmentary view, similar to Figure 5, but partly in longitudinal section and partly in side elevation and illustrating still another application and use of the actuator, and

Figure 8 is a view in transverse section taken on the line 8—8 of Figure 7.

Referring to the drawing by numerals, the actuator of our invention comprises a member **1** including a shank portion **3**, preferably flat transversely, and longitudinally curved, a widened oval runner portion **5** at one end of the shank **3** longitudinally and transversely concavo-convex and substantially spoon-shaped to provide a convex bottom **7** thereon longitudinally curved reversely relative to the shank **3**, and a widened return bend hook portion **9** on its other end having a substantially oval terminal runner portion **11**. The hook portion **9** and bottom **7** are at opposite sides of the shank portion **3**.

At substantially the juncture of the shank portion **3** and runner portion **5** an outstanding attaching lug **13** is bent out of the member **1** on the concave side **15** of the runner portion **5**. The lug **13** is of the proper size to fit loosely in the usual aperture **17** in the tab **19** of the slide **21** of the usual slide fastener for opening and closing the

stringers **23** of the "zipper" type slide fastener **25**. Between the tip **27** of the runner portion **5** and the lug **13** and at the rear portion of said runner portion **5**, a transverse slot **29** is provided in said runner portion **5** for the insertion therein of the solid type tab **31** of some of such slides **21**. The slot **29** transversely thereof lies in a plane oblique to the concave face, or side **15** of the runner portion **5** and extends outwardly of said side or face **15** to facilitate inserting the tab **31** into and through said slot.

The runner portion **11** has formed therein at a suitable distance from its tip **33** a transverse slot **35** which is of sufficient length to admit therein the tab **31** and which has the form of a figure eight to provide a pair of opposite, central teeth **39** in the slot at opposite sides of the tab positioned in the slot.

The described member 1 is formed of any suitable light strong material, for instance aluminum.

In one use and application of the described actuator, shown in Figures 1 and 5, the member **1** is inserted between the stringers **23** of the slide fastener **25** for endwise movement therebetween with the apertured tab **19** hooked over the lug **13** to attach the actuator and the runner portion **5** inserted forwardly under the stringers **23** and the slide **21** and the shank **3** extending rearwardly from said runner portion **5** with the hook portion **9** uppermost. When thus applied and attached, the runner portion **5** interposed between the stringers **23** and the material **41**, or skin, and the bottom **7** running on the material, said runner portion **5** upon endwise movement of the member **1** will smooth out wrinkles in the material, or skin, while the slide **21** may be easily and conveniently moved in opposite directions by corresponding movement of the member **1** to open or close the slide fastener.

When the slide fastener **31**, as shown in Figure 6, is solid, the member **1** may be used to push the slide **21** so as to open the slide fastener, by inserting the tab **31** rearwardly through the slot **29** with the member **1** otherwise positioned, as previously described, the member **1** being pushed forwardly by means of the hook portion **9** to push the slide **21**.

To either push or pull the slide, the member **1** may be optionally used by inverting the same and the hook portion **9** hooked under the slide **21** so that the runner portion **11** is between the material **41**, or skin, and the stringers **23** and the tab **19** or **31** as the case may be and the tab inserted in the slot **35**. If an apertured tab **19** is inserted in the slot **35**, the teeth **39** will interlock with the slot **17** to attach the member **1** to the slide **21**, as shown in Figures 7 and 8. If the solid tab **31** is inserted in the slot **35**, the teeth **39** will bite into said tab upon proper manipulation of the member **1**. Thus the member **1** in optional use of the runner portion **11** may be securely attached to either an apertured tab **21** or a solid tab **31** for operating the slide **21**. As will be understood, the runner portion **11** will act in the same capacity as the runner portion **5**. However, it is to be noted that the runner portion **11** is narrower than the runner portion **5**. This is advantageous in opening and closing smaller sizes of slide fasteners **25**. In the first described application of the actuator, the hook portion **9** affords a finger hook hand grip means for manipulating the member, and in the last decribed application of the member **1**, the runner portion **5** provides a hand grip means for manipulating the member.

The foregoing will, it is believed, suffice to impart a clear understanding of our invention, without further explanation.

Manifestly, the invention, as described, is susceptible of modification without departing from the inventive concept, and right is herein reserved to such modifications as fall within the scope of the appended claim.

What is claimed as new is as follows:

An actuator for attachment to a slotted tab of a slide movable along a pair of slide fastener stringers to open and close said stringers over a piece of material comprising a shank having a return bent hook portion on one end forming a runner adapted to be hooked under the slide and stringers to run between the stringers and material and having a transverse slot therein adapted to receive said tab, said slot being provided in its transverse center with a pair of opposite spaced apart teeth adapted to interlock with a slot of said tab.

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