

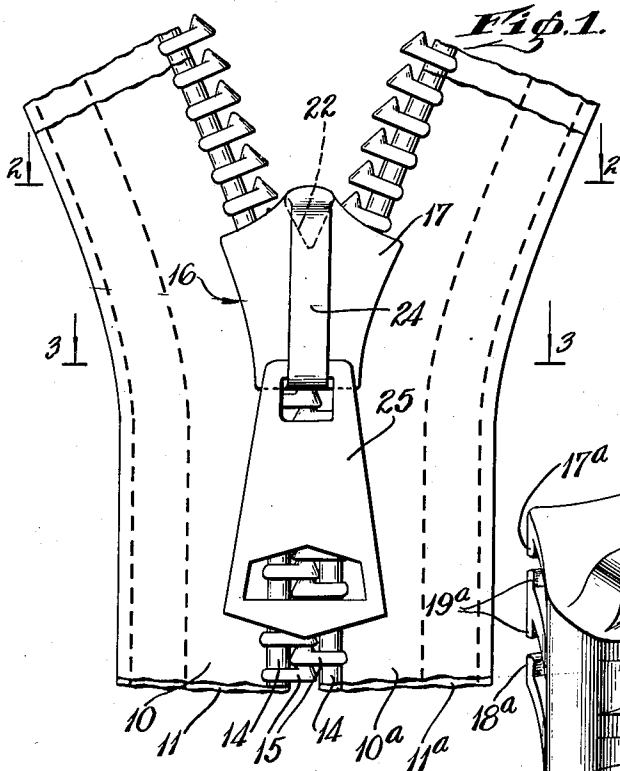
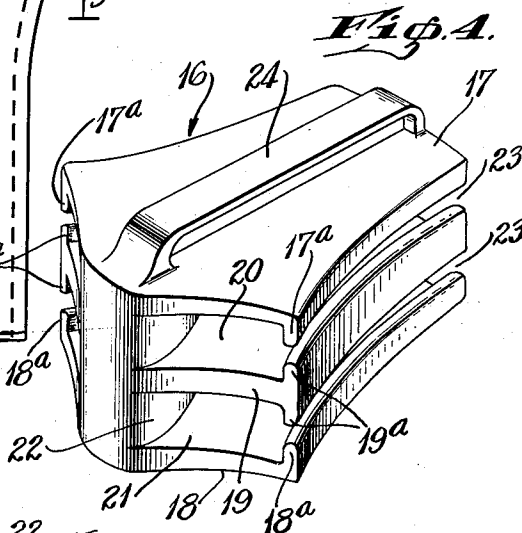
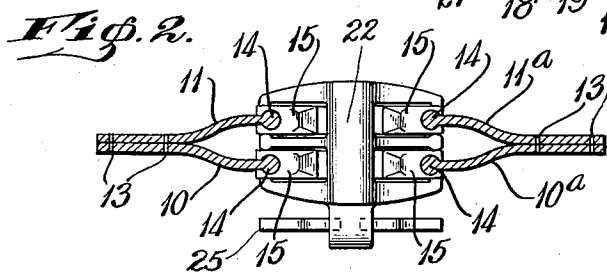
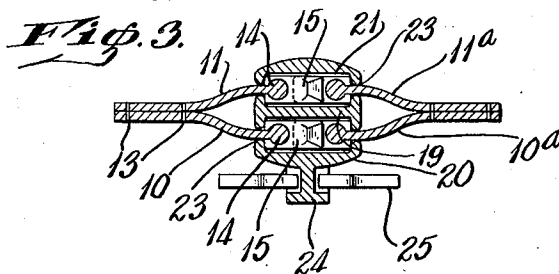
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SEPARABLE FASTENER

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SEPARABLE FASTENER

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1 Claim. (Cl. 24—205)

This invention relates to separable fasteners employing stringers adapted to be coupled and uncoupled by a slider movable longitudinally of the stringers. More particularly, the invention relates to what might be termed a duplex structure of this type and kind employing two pairs of stringers arranged one directly above the other and with a double channeled slider for receiving the pairs of stringers to couple and uncouple both pairs of stringers in the movement of the slider longitudinally thereof. The novel features of the invention will be best understood from the following description and annexed drawing in which certain embodiments of the invention are disclosed, and in which the separate parts are designated by suitable reference characters in each of the views; and in which:

Fig. 1 is a face view of a part of a fastener made according to my invention, indicating the stringers partly coupled and partly uncoupled.

Fig. 2 is a section substantially on the line 2—2 of Fig. 1.

Fig. 3 is a section substantially on the line 3—3 of Fig. 1; and,

Fig. 4 is a perspective view of slider detached.

In certain installations of separable fasteners of the type known as slide fasteners, it is desirable to employ two pair of stringers to give added strength to the fastener. This is especially true where the fastener is subjected to excessive stress or strain. Fasteners of this type and kind are desirable for use on certain types of luggage and, in fact, can be used on various types of garments which are subjected to heavy stress or strain. In certain uses the stringer tapes may be first united together and then joined to the support; or the tapes may be separately secured to independent supports of a common article or garment. In both instances, however, a single double channeled slider will be utilized to simultaneously couple and uncouple both of the stringers employed. In other words, the duplex fastener forming the subject matter of this invention might be termed a heavy duty fastener. A fastener of this type and kind is made possible by the construction of a simple and economical form of duplex slider of the specific construction which is hereinafter more fully set forth.

In Figs. 1, 2 and 3 of the drawing, 10, 10a represent the stringer tapes of one fastener; and 11, 11a represent corresponding stringer tapes of the other fastener forming the duplex fastener stringers. The tapes 10, 11 and 10a, 11a may be independently secured to supports, or

these tapes may be stitched together as seen at 13 to form a unitary double tape structure. The adjacent edges of the tapes are beaded as seen at 14 in the usual manner; and on these beaded edges are attached the coupling links or scoops 15 which may be of any desired construction and formed of metal or plastic materials. When the tapes are secured together as shown, tapes 10—11 and 10a—11a form two pairs of tapes with their link-carrying edges free from each other.

At 16 I have shown one of my improved sliders which comprises a unitary die cast body of metal or metal alloys, or of thermoplastic material such for example as cellulose acetate. The slider 16 comprises a top wall 17, a bottom wall 18, which may for convenience be referred to as outer walls, and a central wall 19; the latter dividing the body 16 into an upper channel 20 and a lower channel 21 to receive the links of the stringer tapes 10, 10a and 11, 11a respectively. The wide end portion of the walls 17, 18, and 19 are joined and spaced apart by the connecting web 22 which is disposed centrally of the wide end of said walls, the web dividing each channel 20, 21, at said wide end of the sliders as in other devices of this type and kind. The side edges of the wall 17 have intumed flanges 17a, and the corresponding edges of the wall 18 have intumed flanges 18a, whereas the edges of the intermediate partition wall 19 terminate in laterally extending flanges 19a, which form of the wall 19 what might be termed an I-beam cross-sectional contour as will appear in Fig. 3 of the drawing, particularly at the narrow end of the slider. The flanges 17a, 18a, and 19a, provide at the sides of the slider, openings or passages 23 to receive the tapes 10—10a, 11—11a, as will be apparent.

Upon the outer surface of the top wall 17 of the slider is disposed a channel bar or other means 24 for coupling a pull 25 with the slider. The illustration in the accompanying drawing shows only one adaptation of pull mounting; it being understood that this may be varied to suit fasteners of different types and kinds.

By forming the slider 16 of die cast materials, a very simple and economical form of slider body is provided thereby simplifying the construction of a duplex fastener of the type and kind described. It will be understood that in the operation of the slider 16 on the stringers that the links 15 of the stringer tapes 10—10a will be coupled and uncoupled simultaneously with the coupling and uncoupling of the links 15 of the tapes 11, 11a. A duplex fastener of the character described will give double strength to the fas-

tener or coupling of two opposed members of a piece of luggage or opposed members of garments or other devices. With heavy duty fasteners of this type and kind a relatively large pull is provided to insure a firm grip upon the pull facilitating the operation of the slider along the stringers especially in drawing the stringers together in coupling the same as will be apparent.

5 In the construction of fasteners of the type and kind under consideration, the links of a stringer tape are commonly referred to as link chains, and it may be thus said that each stringer of applicant's duplex fastener is composed of a pair of link chains; and the pairs of link chains 10 of opposed stringers are coupled together by the slider movable longitudinally of the stringers.

15 Having fully described my invention, what I claim as new and desire to secure by Letters Patent, is:

As an article of manufacture, a separable fastener comprising two pairs of tapes, each tape having coupling links on one edge thereof, means securing together the tapes of each pair, with a free space between the link-carrying edges of 5 each pair, and a slider having a single central wall arranged to move in said space during operation of the slider and two outer walls parallel to said central wall and joined thereto by a connecting web, said central wall having flanges at 10 its opposite edges extending outwardly from the wall in opposite directions therefrom and the opposite edges of said outer walls having inwardly extending flanges in line with those on the central wall, whereby said central flanged wall and 15 connecting web cooperate with both said outer flanged walls to form channels for the four edges of the tapes.

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