WAISTBAND FOR TROUSERS AND SLIDE FASTENER THEREFOR

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ABSTRACT

The slide fastener serves to adjustably connect a first waistband section and a second waistband section, which overlaps said first waistband section on the outside thereof. A plastics material guide rail is adapted to be secured to said first waistband section. A slide buckle is adapted to be secured to said second waistband section and comprises a base part in guided engagement with and slidable along said guide rail and an eccentric clamping member disposed on the outside of and pivoted to said base part. A fabric strip overlies said rail on the outside thereof throughout its length and extends between said base part and said eccentric clamping member and has opposite ends adapted to be sewn to said second waistband section. Said eccentric clamping member is operable to releasably clamp said strip against said base part in any desired position thereof along said rail.

12 Claims, 5 Drawing Figures
WAISTBAND FOR TROUSERS AND SLIDE FASTENER THEREFOR

This invention relates to a slide fastener for waistbands for trousers, which have on each side a cut for the trouser pocket, a rear waistband section, and a forward waistband section which overlaps the rear waistband section at said cut to an adjustable extent. The adjustment is enabled by the provision of a slide buckle, which is connected to the forward waistband section and is adjustably guided on a rail secured to the rear waistband section.

In known adjustable waistbands of this type, the slide rail consists of a narrow serrated bar of plastics material and a slider is adjustable on said bar. The serration of this bar of plastics material is subject to wear, and the nature of the bar itself differs from that of the waistband proper. This arrangement enables the desired adjustment but does not afford an optimum solution.

It is an object of the invention to provide a more desirable concept. The invention provides a slide fastener for waistbands of trousers having on each side a cut for the trouser pocket, a rear waistband section and a front waistband section overlapping said rear waistband section at said cut to an adjustable extent. The adjustment is enabled by a slide buckle, which is connected to the forward waistband section and adjustably guided on a rail secured to the rear waistband section. This slide fastener is characterized according to the invention in that the guide rail consists of a bar of plastics material, which is secured to and preferably centrally sewn to the rear waistband section and free of detents for the slideable buckle, and a fabric strip overlies said rail and is sewn at both ends to the rear waistband section and adapted to cooperate with an eccentric clamping member of the slide buckle. This arrangement ensures a guidance of the slide buckle by a smooth bar of plastics material and comprises an overlying fabric strip, which enables a locking of the buckle in a position corresponding to the desired width of the waistband. An optimum solution has thus been provided because the guiding and adjusting functions have been separated.

Specifically, the slide buckle may be provided on the inside with guide lugs, which embrace the plastics material guide rail both sides and extend into longitudinal recesses provided on the rear of said rail, and the slide buckle may have a forwardly extending eyelet, which embraces the fabric strip, and at the forward end of said eyelet the slide buckle may be riveted by staples, provided on the outside of the buckle, to the forward waistband section. The eccentric clamping member serves to lock the slide buckle to the fabric strip extending through the buckle.

Further details of the invention are apparent from the drawings, in which

FIGS. 1 and 2 are, respectively, an elevation and a sectional view taken on line II—II in FIG. 1 and show an adjustable waistband provided at the pocket cut and comprising rear and forward sections, and a slide fastener for adjusting the width of the waistband.

FIGS. 3, 4, and 5 are, respectively, a front elevation, side elevation, and rear elevation of the associated slideable fastener, the eccentric clamping member having been omitted in FIG. 3.

It is apparent from the drawing that a forward waistband section 2 overlaps to an adjustable extent a rear waistband section 1 at the cut for the trouser pocket. A slide buckle 3 is provided to enable an adjustment of the width of the waistband. The slide buckle 3 is guided by a plastics material bar or rail 4, which is sewn to the rear waistband section 1 by a central longitudinal seam. A fabric loop 7, which is sewn to the rear waistband section at both ends at 5, 6 overlies the guide rail 4, and together with said rail cooperates with an eccentric clamping member 8 of the slide buckle 3 to fix the latter in the desired position, which determines the width of the waistband. The base portion of the slide buckle 3 is formed on both sides of the eccentric member 3 with guide lugs 9, 10, which are reversely bent inwardly to embrace the guiding portion of the rail 4 of plastics material and extend into longitudinal recesses formed on the inside of the guide rail. The slide buckle 3 has a forwardly extending eyelet 11, which embraces the fabric strip 4. At the free end of this eyelet, the slide buckle 3 is riveted to the forward waistband section by staples 12 on the outside of the slide buckle. The eccentric clamping member 8 serves to lock the slide buckle on the fabric strip 4, which extends through the slide buckle.

The eccentric clamping member 8 is pivoted to outwardly extending mounting lugs 13 provided on both sides of the base part 14 and cooperates with a transverse slot 15 formed in the base part 14 so as to clamp the fabric strip against the base part. To increase the clamping action, the edges 16 of the transverse slot 15 under the eccentric clamping member 8 are slightly raised.

What is claimed is:
1. A slide fastener for adjustably connecting a first waistband section and a second waistband section, which over-laps said first waistband section on the outside thereof, said slide fastener comprising a plastics material guide rail, which is adapted to be secured to said first waistband section, a slide buckle, which is adapted to be secured to said second waistband section and comprises a base part in guided engagement with and slideable along said guide rail, and an eccentric clamping member disposed on the outside of and pivoted to said base part, and a fabric strip, which overlies said rail on the outside thereof throughout its length, extends between said base part and said eccentric clamping member and has opposite ends sewn to said second waistband section, said eccentric clamping member being operable to releasably clamp said strip against said base part in any desired position thereof along said rail.
2. A slide fastener as set forth in claim 1, in which said rail has an inside surface formed with two longitudinal recesses, said base part is formed with inwardly extending guide lugs, which embrace said rail and extend into said recesses, said strip has a first end adapted to be sewn to said first waistband section adjacent to said second waistband section and a second end adapted to be sewn to said first waistband section remote from said second waistband section, said base part carries an eyelet through which said strip extends between said eccentric clamping member and said first end of said strip, and said eyelet is provided on the outside at the end of said eyelet remote from said eccentric clamping
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3. A slide fastener as set forth in claim 2, in which said base part is formed with said guide lugs between said eccentric clamping member and each of said ends of said strip, and said lugs are reversely bent to extend into said recesses.

4. A slide fastener as set forth in claim 2, in which said base part is formed on both sides with outwardly extending mounting lugs and is formed with a transverse slot adjacent to said mounting lugs, and said eccentric clamping member is pivoted to said mounting lugs and adapted to force said strip into said slot.

5. A slide fastener as set forth in claim 4, in which said slot has slightly raised edges adapted to cooperate with said eccentric clamping member to increase the clamping action.

6. An adjustable waistband for trousers, which comprises a first waistband section, a second waistband section, which overlaps said first waistband section on the outside thereof, and a slide fastener adjustably connecting said first and second waistband sections, said slide fastener comprising a plastics material guide rail secured to said first waistband section, a slide buckle, which is secured to said second waistband section and comprises a base part in guided engagement with and slidable along said guide rail and an eccentric clamping member disposed on the outside of and pivoted to said base part, and a fabric strip, which overlies said rail on the outside thereof throughout its length and extends between said base part and said eccentric clamping member and has opposite ends sewn to said second waistband section, said eccentric clamping member being operable to releasably clamp said strip against said base part in any desired position thereof along said rail.

7. A waistband as set forth in claim 6, in which said rail is centrally sewn to said first waistband section.

8. A waistband as set forth in claim 6, in which said rail has an inside surface formed with two longitudinal recesses, said base part is formed with inwardly extending guide lugs, which embrace said rail and extend into said recesses, said strip has a first end sewn to said first waistband section adjacent to said second waistband section and a second end sewn to said first waistband section remote from said second waistband section, said base part carries an eyelet through which said strip extends between said eccentric clamping member and said first end of said strip, and said eyelet is secured to said second waistband section by staples provided on the outside of said eyelet at the end thereof remote from said eccentric clamping member.

9. A waistband as set forth in claim 8, in which said base part is formed with said guide lugs between said eccentric clamping member and each of said ends of said strip, and said lugs are reversely bent to extend into said recesses.

10. A waistband as set forth in claim 8, in which said base part is formed on both sides with outwardly extending mounting lugs and is formed with a transverse slot adjacent to said mounting lugs, and said eccentric clamping member is pivoted to said mounting lugs and adapted to force said strip into said slot.

11. A waistband as set forth in claim 10, in which said slot is defined by slightly raised edges adapted to cooperate with said eccentric clamping member to increase the clamping action.

12. A waistband as set forth in claim 6, in which said first and second waistband sections are rear and forward waistband sections, respectively.

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