

PATENT SPECIFICATION

DRAWINGS ATTACHED

822,232



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Specification: Oct. 9, 1956.

No. 4077/59

Application made in Germany on Oct. 21, 1955.

(Divided out of No. 821,341).

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Index at Acceptance :—Class 44, BE4E.

International Classification :—A44b.

COMPLETE SPECIFICATION

Improvements in or relating to Sliding Clasp Fasteners

We, JOSEF RUHRMANN and HANS BAUENDAHL, trading as DR. ING. JOSEF RUHRMANN, of 24, Bahnhofstrasse, Stuttgart-Vaihingen, Germany, both citizens of the Federal Republic of Germany, do hereby declare the invention for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

- 10 The invention relates to sliding clasp fasteners, and consists in a sliding clasp fastener comprising a structure constituted by a filament of metal or plastics (hereinafter called "filamentary structure"), the structure
15 having a series of substantially U-shaped coupling links arranged one behind the other, adjacent links being joined together, each link (except the extreme links of the structure) being joined, at one end, only to the preceding link
20 and, at the other end, only to the succeeding link, a carrier tape extending along one side of the structure, and a beading or additional tape extending along the other side thereof.

- 25 The carrier tape, the filamentary structure and the beading or additional tape may be sewn together. The filamentary structure may be constituted by a single filament of rectangular cross section.

- 30 The limbs of the U-shaped links at a side of the structure may be deformed so that their ends lie substantially in the general plane of the other limbs of the U-shaped links.

- 35 In order to make the invention clearly understood, reference will now be made to the accompanying drawing, which is given by way of example and which is a somewhat diagrammatic perspective view of an embodiment of the invention.

- 40 The drawing shows an elongated structure 1 constituted by a filament of rectangular cross section and having a series of substantially U-shaped coupling links arranged one behind the other, adjacent links being joined together, each link (except the extreme links of the structure) being joined, at one end, only to the
45 [Price 3s. 6d.]

preceding link and, at the other end, only to the succeeding link. A tape 4 and a beading 3' are secured to the outside of the structure 1, each to one side thereof to form a stringer for a sliding clasp fastener.

The structure 1 is substantially U-shaped. It will be seen from the drawing that each U-shaped link 2 has a base 13 which is deformed to constitute a coupling element and two limbs 14 and 15, the limb 14 being bent at 16 and 17 so as to form a shoulder 18 and so that the remainders 141 of the limbs 14 lie substantially in the general plane of the limbs 15. The beading 3' is so disposed as to form guide means for a fastener slider. The tape 4 covers one side of the structure 1 so as to provide a stringer for a tape-covered sliding clasp fastener.

Modifications are possible. For example the beading 3' may be replaced by a tape overlying the covering tape 4, in which case the shoulders 18 serve for guiding the slider.

WHAT WE CLAIM IS:—

1. A sliding clasp fastener comprising a filamentary structure (as hereinbefore defined) having a series of substantially U-shaped coupling links arranged one behind the other, adjacent links being joined together, each link (except the extreme links of the structure) being joined, at one end, only to the preceding link and, at the other end, only to the succeeding link, a carrier tape extending along one side of the structure, and a beading or additional tape extending along the other side thereof.

2. A sliding clasp fastener as claimed in claim 1, wherein the carrier tape, the filamentary structure and the beading or additional tape are sewn together.

3. A sliding clasp fastener as claimed in claim 1 or 2, wherein the filamentary structure is constituted by a single filament of rectangular cross section.

4. A sliding clasp fastener as claimed in claim 1, 2 or 3, wherein the limbs of the U-shaped links at a side of the structure are

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- 10 The invention relates to sliding clasp fasteners, and consists in a sliding clasp fastener comprising a structure constituted by a filament of metal or plastics (hereinafter called "filamentary structure"), the structure
- 15 having a series of substantially U-shaped coupling links arranged one behind the other, adjacent links being joined together, each link (except the extreme links of the structure) being joined, at one end, only to the preceding link
- 20 and, at the other end, only to the succeeding link, a carrier tape extending along one side of the structure, and a beading or additional tape extending along the other side thereof.

The carrier tape, the filamentary structure and the beading or additional tape may be sewn together. The filamentary structure may be constituted by a single filament of rectangular cross section.

- 30 The limbs of the U-shaped links at a side of the structure may be deformed so that their ends lie substantially in the general plane of the other limbs of the U-shaped links.

In order to make the invention clearly understood, reference will now be made to the accompanying drawing, which is given by way of example and which is a somewhat diagrammatic perspective view of an embodiment of the invention.

- 40 The drawing shows an elongated structure 1 constituted by a filament of rectangular cross section and having a series of substantially U-shaped coupling links arranged one behind the other, adjacent links being joined together, each link (except the extreme links of the structure) being joined, at one end, only to the
- 45 [Price 3s. 6d.]

preceding link and, at the other end, only to the succeeding link. A tape 4 and a beading 3' are secured to the outside of the structure 1, each to one side thereof to form a stringer for a sliding clasp fastener.

The structure 1 is substantially U-shaped. It will be seen from the drawing that each U-shaped link 2 has a base 13 which is deformed to constitute a coupling element and two limbs 14 and 15, the limb 14 being bent at 16 and 17 so as to form a shoulder 18 and so that the remainders 141 of the limbs 14 lie substantially in the general plane of the limbs 15. The beading 3' is so disposed as to form guide means for a fastener slider. The tape 4 covers one side of the structure 1 so as to provide a stringer for a tape-covered sliding clasp fastener.

Modifications are possible. For example the beading 3' may be replaced by a tape overlying the covering tape 4, in which case the shoulders 18 serve for guiding the slider.

WHAT WE CLAIM IS:—

1. A sliding clasp fastener comprising a filamentary structure (as hereinbefore defined) having a series of substantially U-shaped coupling links arranged one behind the other, adjacent links being joined together, each link (except the extreme links of the structure) being joined, at one end, only to the preceding link and, at the other end, only to the succeeding link, a carrier tape extending along one side of the structure, and a beading or additional tape extending along the other side thereof.

2. A sliding clasp fastener as claimed in claim 1, wherein the carrier tape, the filamentary structure and the beading or additional tape are sewn together.

3. A sliding clasp fastener as claimed in claim 1 or 2, wherein the filamentary structure is constituted by a single filament of rectangular cross section.

4. A sliding clasp fastener as claimed in claim 1, 2 or 3, wherein the limbs of the U-shaped links at a side of the structure are



deformed so that their ends lie substantially in the general plane of the other limbs of the U-shaped links.

5. A sliding clasp fastener substantially as
5 hereinbefore described with reference to the

accompanying drawing.

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