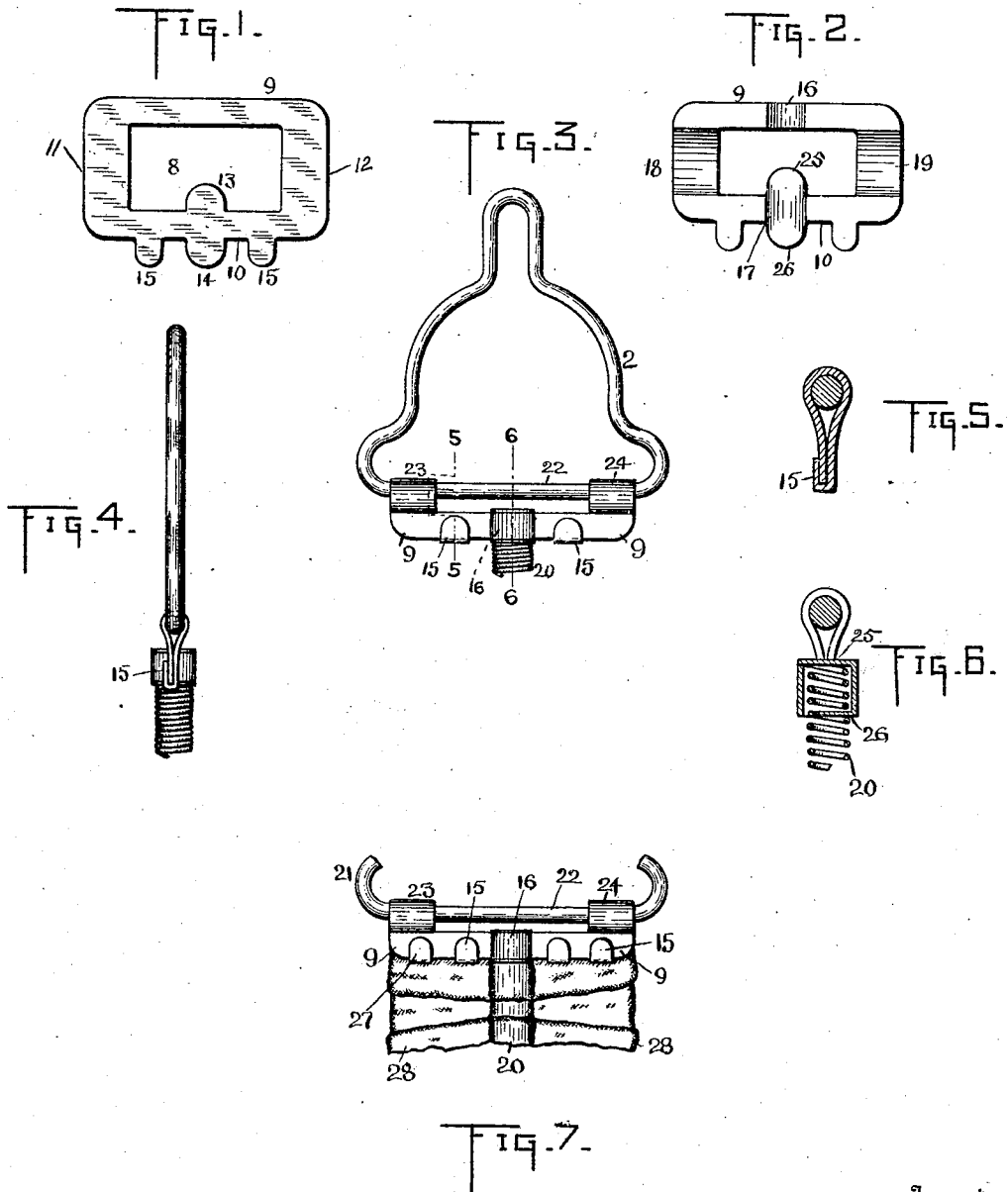


B. LAUCKNER.
CLAMP FOR GARMENT SUPPORTERS.
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943,084.

Patented Dec. 14, 1909.



Inventor

Witnesses

W. A. Evans

Annie Cooper

By

Bruno Lauckner

J. Brashears

Attorney

UNITED STATES PATENT OFFICE.

BRUNO LAUCKNER, OF OLBERNHAU, GERMANY, ASSIGNOR TO G. F. NEWHARD, OF ST. LOUIS, MISSOURI.

CLAMP FOR GARMENT-SUPPORTERS.

943,084.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, BRUNO LAUCKNER, a subject of the German Emperor, and residing at Olbernhau, Germany, have invented certain new and useful Improvements in Clamps for Garment-Supporters, of which the following is a specification.

On April 16, 1908, I filed an application for United States Letters Patent for improvements in elastics, Ser. No. 427,353, in the original presentation of which claims were made to the metal clamp for securing the body of the elastics or the fabric to the fastening means at the ends thereof. These metal clamps having been deemed a separate invention, the claims to them have been eliminated from said prior application and embodied in this application.

The present invention therefore consists of the construction, arrangement and combination of the parts of the metal clamp of this character, whereby the body of an elastic garment supporter or like article may be properly secured to the means provided at each end thereof for fastening the completed device in operative position on the garment or garments, all as will be hereinafter fully described and afterward specifically claimed.

In the accompanying drawing, which illustrates the subject matter of the present application, Figure 1 is a plan view of a sheet metal blank of which may be formed my improved clamp. Fig. 2 is a similar view of the blank illustrated in Fig. 1 stamped into form for my improved clamp and ready to be bent into its operative form. Fig. 3 is a view in elevation of my improved clamp in position securing two parts together. Fig. 4 is a view in side elevation thereof. Fig. 5 is a detail sectional view on the broken line 5—5 of Fig. 3. Fig. 6 is a detail sectional view on the broken line 6—6 of Fig. 3. Fig. 7 is a view in elevation of a clamp made in accordance with my improved invention but slightly modified in construction, in operative position securing together the body of the garment supporter and the fastening means, parts of said body and fastening means being broken away.

Like reference characters mark same parts wherever they occur in the various figures.

Referring specifically to Fig. 1, the metal blank of which my improved clamp is to be formed, and which may be stamped from

sheet metal or even cast of malleable iron, although sheet metal is preferable, is of substantially oblong form, comprising, around a central aperture 8, parallel sides 9 and 10 and parallel ends 11 and 12, the side 9 and ends 11 and 12 being plain, without projections or indentations, while projecting from the inner side of the side 10 is a tongue 13 and from the outer side thereof, and opposite the tongue 13, a similar tongue 14 projects. While the operation of cutting out the blank of Fig. 1 just described and bringing it to the construction shown in Fig. 2, might be simultaneous or a single operation, I will describe the formation of the structure shown at Fig. 2 as a second operation, during which the side 9 is curved outwardly at 16 and the side 10 at 17, the end 11 at 18 and the end 12 at 19. The blank as shown in Fig. 2 is now ready to be engaged with the elastic member of the garment supporter, shown at 20, and the fastening means shown at 21, by bending the clamp, so that the curves 18 and 19 embrace the end bar 22 of the fastening means 21, tubes 23 and 24 being formed of said curves, said tubes encircling the end bar 22 and pivotally connecting the clamp with said fastening means 21. Prior to this bending operation the two ends 25 and 26 of the curved portion 17 of the end 10 of the clamp, are bent at right angles to said side 10, and when, during said bending operation, the sides 9 and 10 are brought together, the two curves 16 and 17 form a complete cylindrical opening into which the elastic member is placed, said elastic member in this instance being a spiral spring, the end of said spiral spring being inclosed in said cylindrical opening, the inner end of which is closed by the flange 25, and the flange 26 being projected between the coils of the spiral spring, thus firmly securing said spring, or elastic member, to the clamp. In order to maintain the parts in the position just described the small tongues or tangs 15, projecting from the side 10, are bent over the side 9 as clearly shown in Figs. 3, 4 and 5. By the means described the elastic member 20 of the clamp supporter is securely and pivotally connected to the fastening means or member 21 and the object of the invention accomplished.

It will be readily understood that the several parts of the invention may be modified

in form somewhat without departing from the spirit of the invention, one modified form being shown in Fig. 7 in which the fastening means 21, with end bar 22, the tubes 23 and 24, the side 9, flanges 25 and 26 and tangs 15 are of the same construction as in the other figures, but additional tangs 27 are formed on the side 10 and by preference, in this modification, I would make the tangs 15 and 27 somewhat narrower than the tangs 15 before described.

In bending the clamp together to form the tubes 23 and 24 around the bar 22 of the fastening means 21, the elastic member 20 of the garment supporter will be secured in the same manner as herein before described, but the inelastic member 28 will be clamped between the sides 9 and 10, the tangs 15 and 27 passing through said elastic member and being bent over or clamped against the side 9 in the same manner as before. In this form both the elastic member 20 and the inelastic member 28 are pivotally secured to the fastening means 21, whereas in the construction before described only the elastic member 20 was so secured, the object of pivotally connecting the fastening means to the supporter being to admit of free movement of the parts upon each other when the supporter is in use.

Having thus fully described my invention,

what I claim and desire to secure by Letters Patent of the United States is:

1. A clamp of the character described comprising rectangular sides and ends, the ends being formed into tubes to encircle a bar, and the sides being outwardly curved to form a cylindrical opening to receive the end of a spiral spring, one of the sides being provided with a tongue to pass between the coils of said spring, and with a second tongue to close the end of the cylindrical opening, substantially as described.

2. A clamp of the character described comprising rectangular sides and ends, the ends being formed into tubes to encircle a bar, and the sides being outwardly curved to form a cylindrical opening to receive the end of a spiral spring, one of the sides being provided with a tongue to pass between the coils of said spring, a second tongue for closing the end of the cylindrical opening, and a plurality of tangs adapted to be bent around the other side to secure the parts in position, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

BRUNO LAUCKNER.

Witnesses:

WILLIAM J. KOUJSTRUY,
OTTO DOERING.