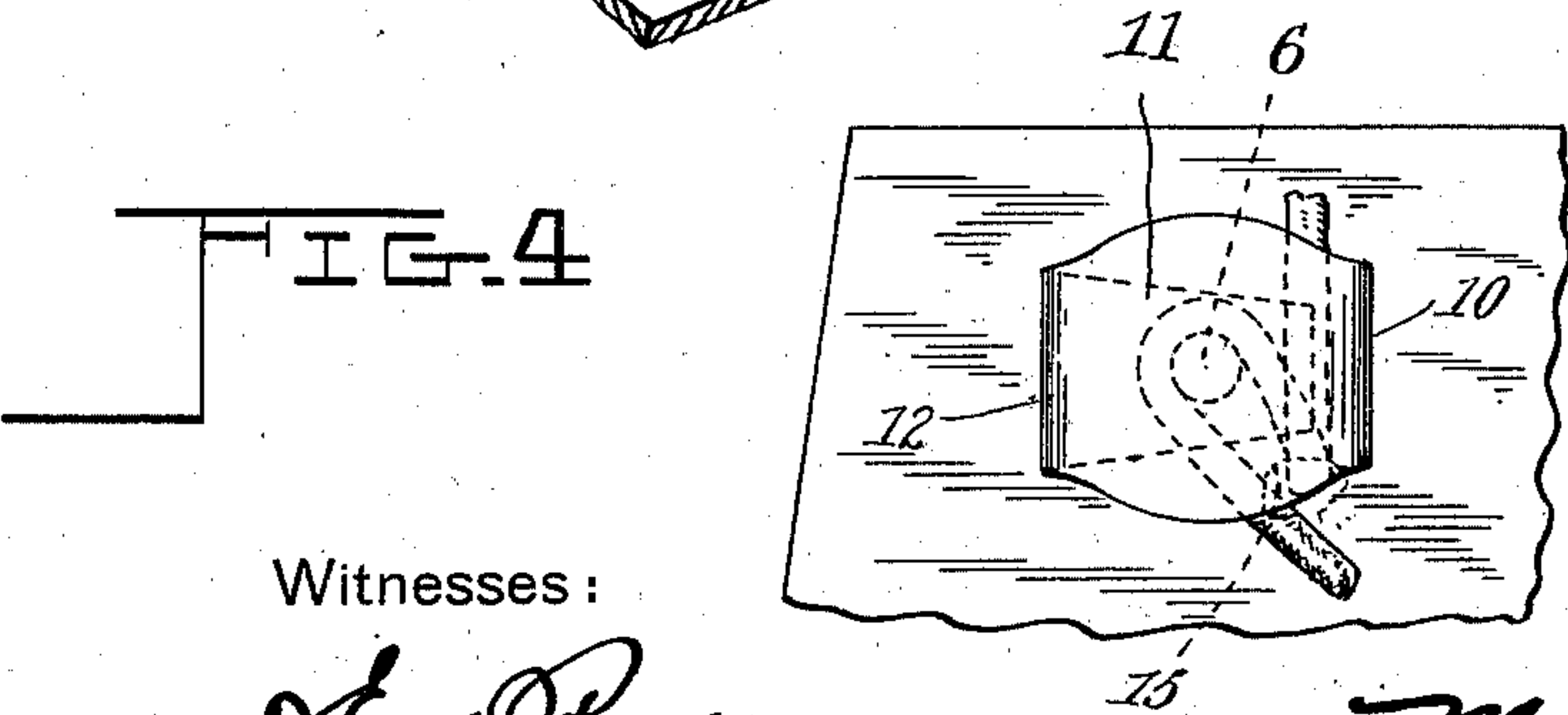
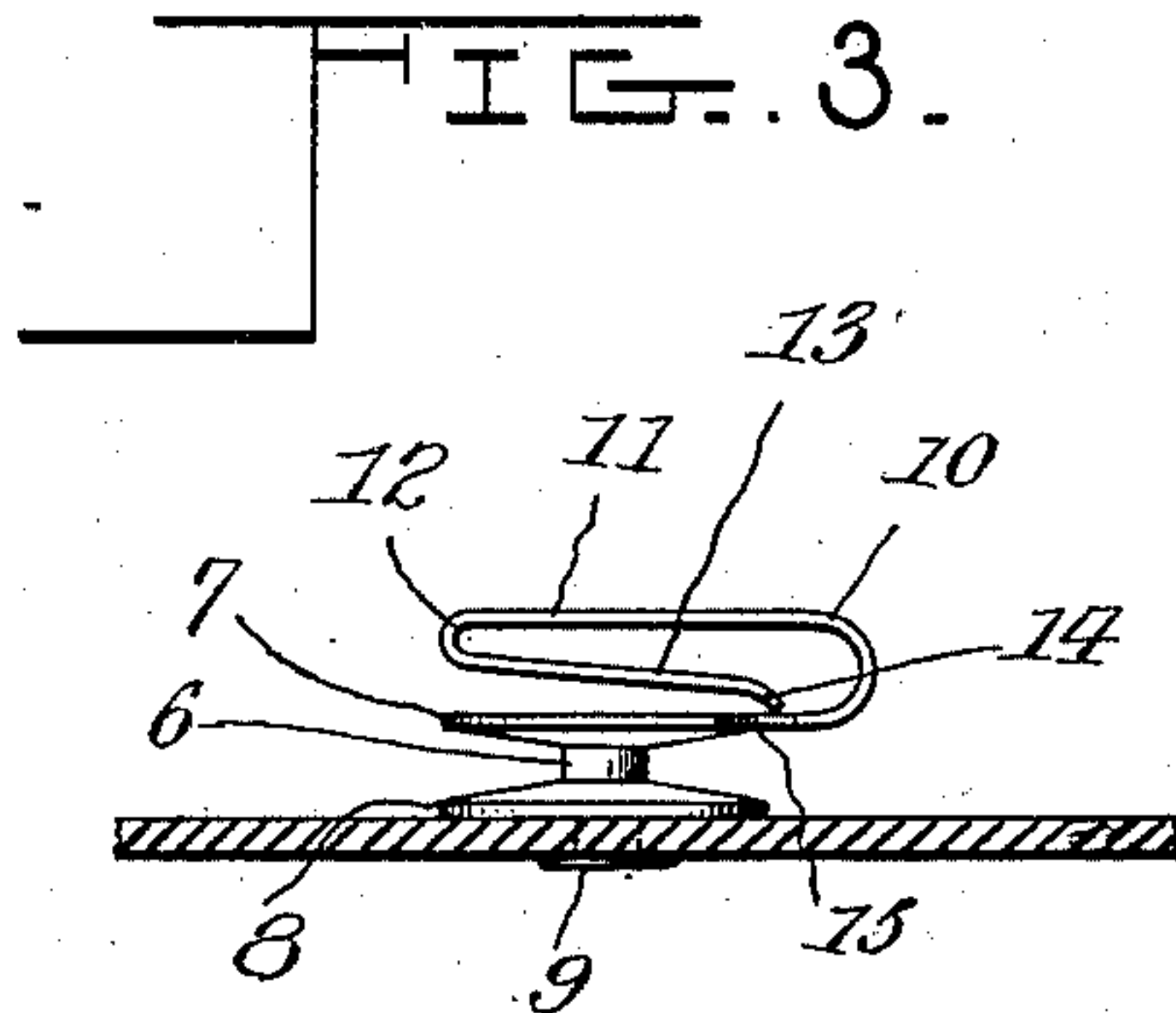
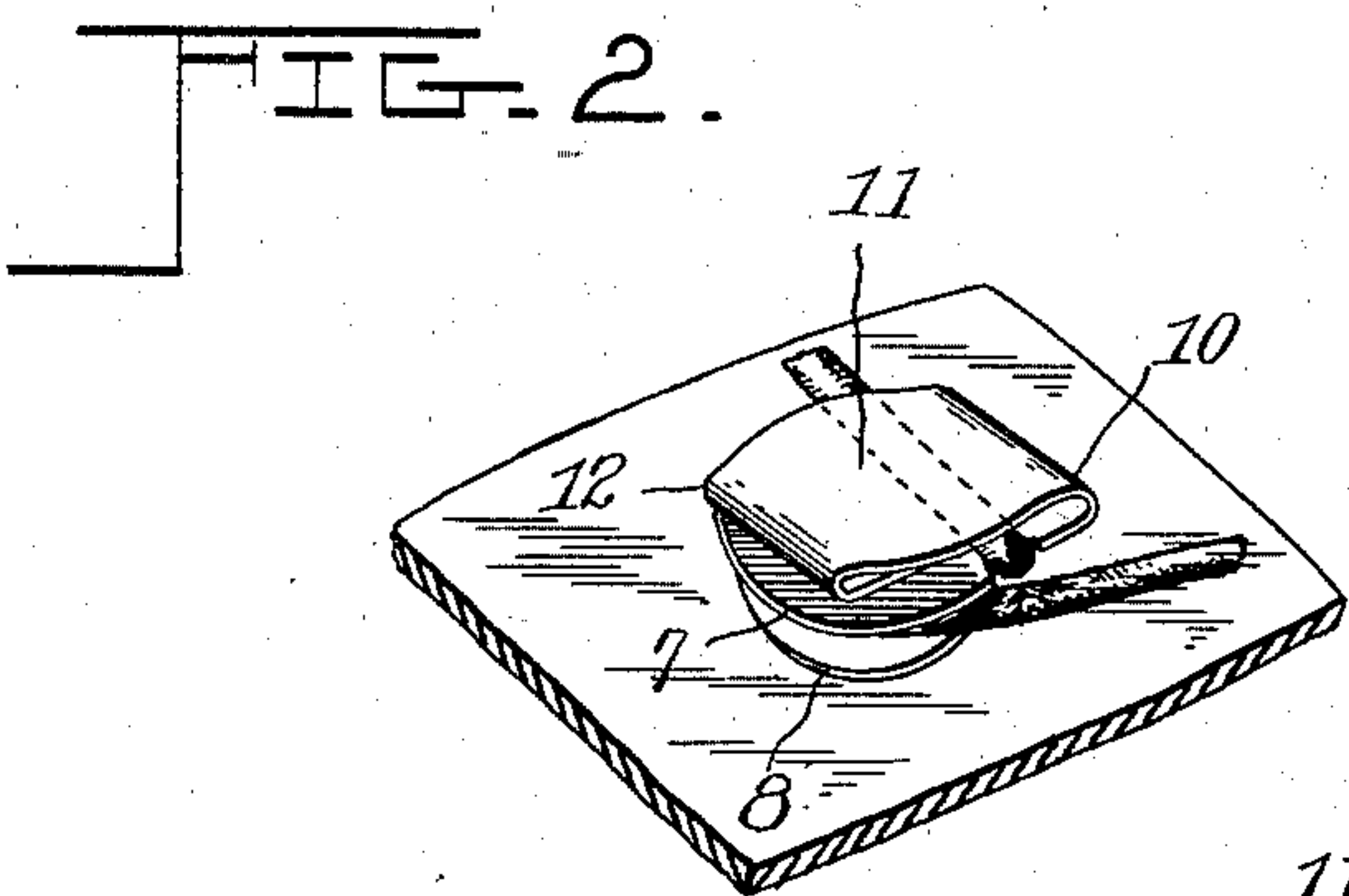
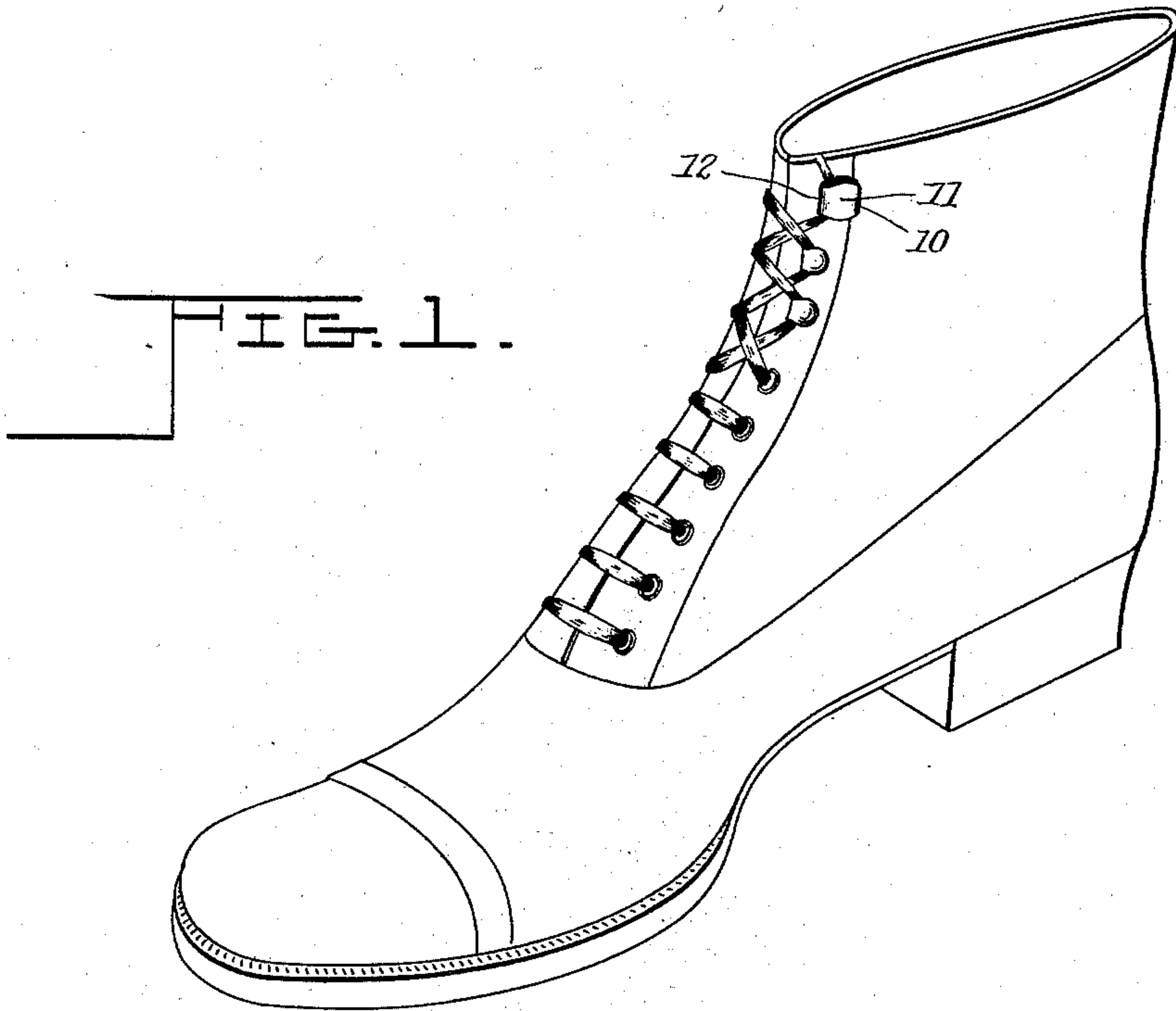


No. 750,526.

PATENTED JAN. 26, 1904.

G. C. FERGUSON.
SHOE LACE FASTENER.
APPLICATION FILED JUNE 6, 1903.

NO MODEL.



Witnesses:

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UNITED STATES PATENT OFFICE.

GEORGE CANNON FERGUSON, OF FREDERICTON, CANADA.

SHOE-LACE FASTENER.

SPECIFICATION forming part of Letters Patent No. 750,526, dated January 26, 1904.

Application filed June 6, 1903. Serial No. 160 400. (No model.)

To all whom it may concern:

Be it known that I, GEORGE CANNON FERGUSON, a subject of the King of Great Britain, residing at Fredericton, York county, Province of New Brunswick, Canada, have invented certain new and useful Improvements in Shoe-Lace Fasteners; and I do hereby declare that the following is a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to a device for fastening the ends of shoe-laces, glove-laces, and the like, and is also applicable to the fastening of any cord or rope without the necessity of tying the same.

The object of my invention is to produce such a device which may be readily operated with the greatest possible ease and which will obviate the disadvantages of tying the two laces together at the top, which often produces pinching, and for this reason many people do not utilize the top hooks in a shoe. My device also when applied on boots in the place of the top hooks will prevent any painful pressure when walking.

My invention consists in a hitching-pin, in combination with a resilient clamping means for the end of the lace, formed and constructed in the manner hereinafter set forth, and more particularly pointed out in the claims.

In the drawings accompanying this specification, Figure 1 is a perspective view of a shoe provided with my improved lace-fastener. Fig. 2 is a perspective view of the fastener and a portion of the shoe-upper to which it is secured. Fig. 3 is a side view of the same, and Fig. 4 is a plan view of the same.

The invention comprises a cylindrical shank or pin 6, which may, if desirable, be made tubular in the manner of ordinary shoe-hooks and has two broad flanged rims 7 and 8, the lower of which rests upon the material of the shoe-upper or whatever else it is fastened to, and a riveted stem 9 may in this case be provided for riveting the fastener thereto. The opposed faces of the flanges 7 and 8 are, as shown, made preferably converging toward the center, so as to form a wedge-shaped groove in which the shoe-lace is adapted to be laid and become tightly wedged. One side

of the flange 7 has an extension in the form of a flat tongue 10, which is recurved over the flange 7, as at 11, and again bent at 12 and the end 13 curved under the portion 11. The material of the tongue 10 is resilient, so that the end 13 thereof is resiliently pressed against the upper surface of the flange 7, and its extreme end is bent down, as at 14, into contact therewith.

One method of applying the lace to fasten the end thereof is shown in Figs. 2 and 4. It is coiled once around the stem 6 and wedged into the groove between the flanges 7 and 8 and the end then brought over the flange 7 at the base of the tongue 10. The end is adapted to be laid in a notch 15 therein, the end then passing between the end 13 of the tongue and the flange 7 and becoming resiliently wedged in place. The lace may be passed in either direction around the stem 6, the opposite from that shown in the drawings being slightly the stronger mode of fastening. When once set, it cannot become loose of itself owing to the sharp bend at the notch 15; but it may be readily released from the fastener by simply taking hold of the free end of the lace and disengaging it from the tongue.

This fastener is equally applicable to holding ends of awning-cords, clothes-lines, glove-laces, &c., in the easiest possible manner, and it will be noticed that the strain upon the fastener tending to pull it over comes as close as possible to the base thereof, so that its strain is reduced to a minimum. Of course where it is desired to attach the same to a post, window-sash, or other object the riveting-stem 9 may be replaced by any other mode of fastening.

Changes within the scope of the following claims may be made in the form and construction of the parts without departing from the spirit of my invention, and I desire it to be understood, therefore, that I reserve the right to make such modifications in form and dimensions as will be apparent to those skilled in the art.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A fastener for the loose ends of cords comprising a pin or stud having two annular

flanges, between which the cord is adapted to be wound, and a tongue forming an extension on one of said flanges and recurved over the same, and between which and the flange the end of the cord is adapted to be wedged.

2. A fastener for the free ends of shoe-laces and other cords comprising a stem, a pair of annular flanges at opposite ends thereof, and a tongue forming an extension on the outer of said flanges, said tongue being recurved over said flange and again recurved between said first recurved portion and said flange, and said second portion being resiliently held in contact with said flange, whereby the end of the cord is adapted to be wedged between it and said flange.

3. A fastener for the free ends of shoe-laces and other cords comprising a stem, a pair of annular flanges at opposite ends thereof, and a tongue forming an extension on the outer of said flanges, said tongue being recurved over said flange and again recurved between said first recurved portion and said flange, and said second portion being resiliently held in contact with said flange, whereby the end of the cord is adapted to be wedged between it and said flange, the latter having a notch in its side at the base of said tongue.

4. A fastener for the loose ends of cords

comprising a pin or stud having two annular flanges, between which the cord is adapted to be wound, and a tongue forming an extension on one of said flanges and recurved over the same, and between which and the flange the end of the cord is adapted to be wedged, the opposed faces of said flanges converging toward the center.

5. A fastener for the free ends of shoe-laces and other cords comprising a stem, means for fixing it to a stationary object, a wide annular flange 8 formed upon the base of said stem, a similarly-formed annular flange 7 around the upper end of said stem, the opposed faces of said flanges being conical and converging toward each other, and a tongue 10 forming an extension on said flange 7 and having a recurved portion 11 extending over said flange, and a recurved portion 13 extending between said portion 11 and said flange and resiliently held against the latter, there being a notch 15 in said flange 7 at the base of the said tongue.

In witness whereof I have hereunto set my hand in the presence of two witnesses.

GEORGE CANNON FERGUSON.

Witnesses:

W. I. MCGINN,

W. J. IRVINE.