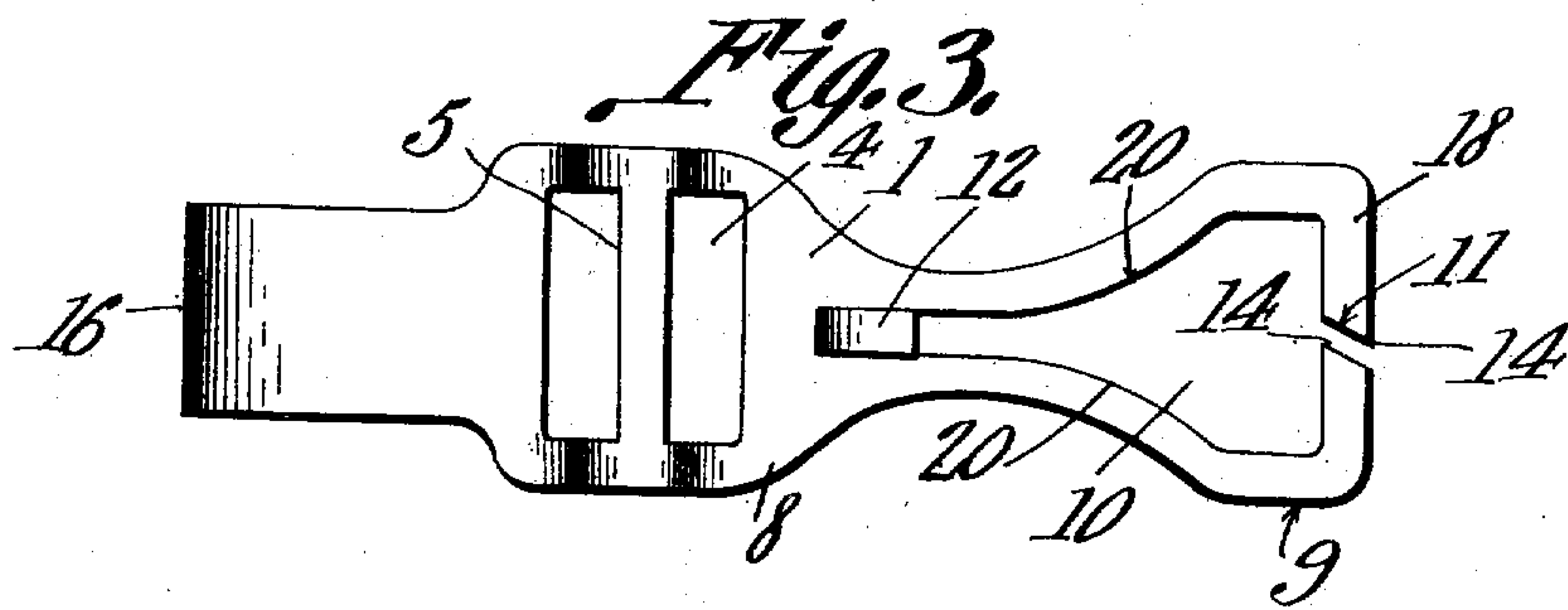
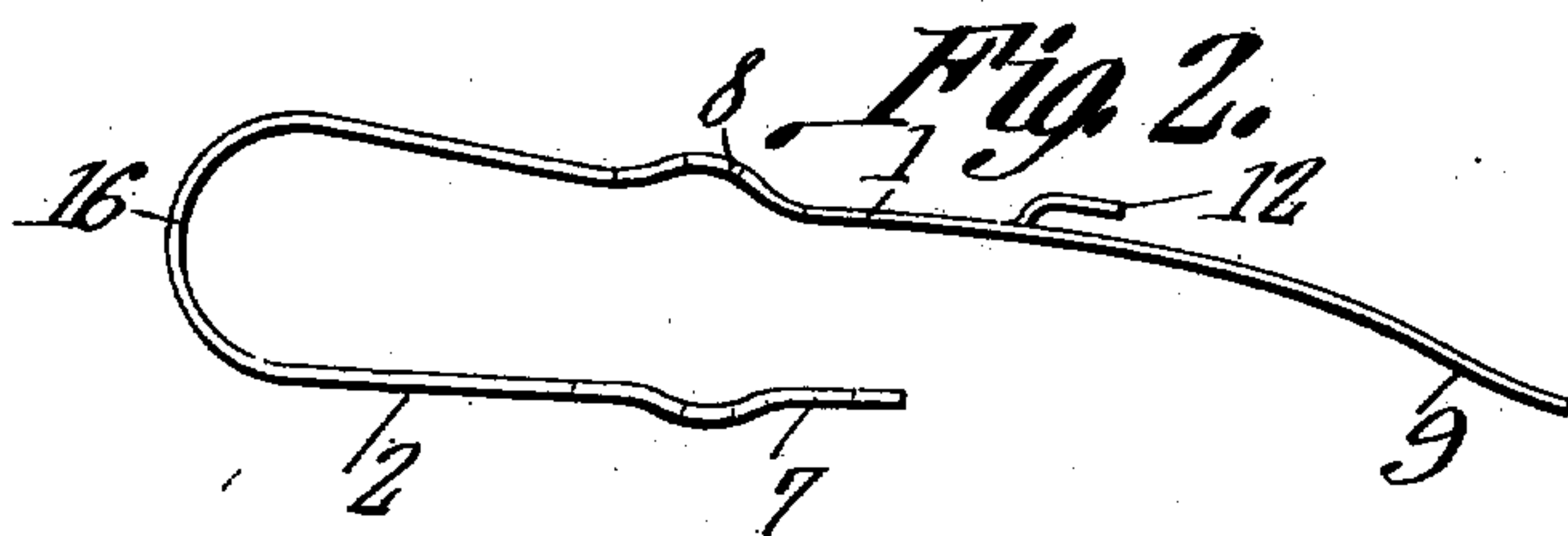
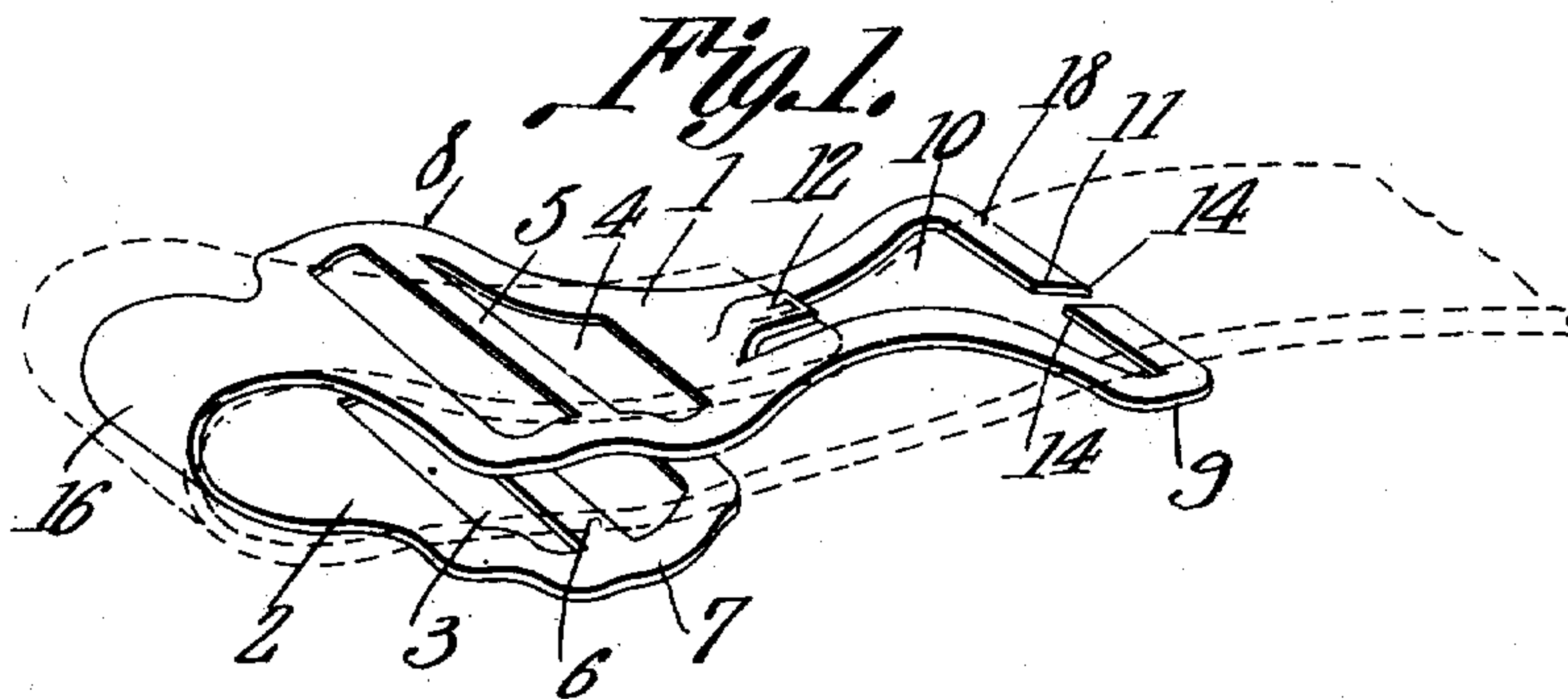


979,347.

Patented Dec. 20, 1910.



Witnesses

J. Bonning
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UNITED STATES PATENT OFFICE.

CHARLES D. SMITH, OF PARIS, ILLINOIS.

SAFETY-HOOK.

979,347.

Specification of Letters Patent.

Patented Dec. 20, 1910.

Application filed April 20, 1910. Serial No. 556,487.

To all whom it may concern:

Be it known that I, CHARLES D. SMITH, a citizen of the United States, residing at Paris, in the county of Edgar and State of Illinois, have invented a new and useful Safety-Hook, of which the following is a specification.

It is the object of this invention to provide a securing device adapted to hold a strap end, and to form a loop therein.

Specifically, it is the object of the invention to provide novel elements, in a device of this character, adapted at once, to maintain the strap securely upon the device, and to permit of a ready removal of the strap when occasion demands.

In the drawings,—Figure 1 is a perspective; Fig. 2 is an edge elevation; and Fig. 3 is a top plan.

The device forming the subject matter of this application, is a hook-shaped structure, the longer arm of which is denoted by the numeral 1, the shorter arm thereof being denoted by the numeral 2. At its extremity, the shorter arm 2 is enlarged to form a head 7, the intermediate portion of the longer arm 1 being enlarged to form the head 8. In the head 7 of the shorter arm, there is an opening 3 disposed opposite to a similar opening 4 in the head 8 of the longer arm. A keeper 5, formed integrally with the longer arm 1, extends across the opening 4, while a keeper 6, formed integrally with the shorter arm 2, extends across the opening 3.

The extremity of the longer arm 1 is enlarged, as denoted by the numeral 9. In this enlarged end 9 of the longer arm, there is a triangular opening 10, the base of which triangular opening is disposed at right angles to the longer dimension of the device. In the end of the longer arm 1, there is a slot 11, communicating with the triangular opening 10. The axis of this slot is inclined at an angle to the longer dimension of the device, thus forming the points 14, disposed diagonally with respect to each other, and formed in the acute angles defined by the edges of the slot 11 and the transverse bar 18 which serves to define the base of the triangular opening 10. A portion of the constituent material of the longer arm 1 is struck from the apex of the triangular opening, and preferably bent to form the hook 12, or like strap-engaging projection.

In practical operation, one end of the strap is caught over the hook 12, the free end of the strap being passed beneath the keeper 5, and thence extended over the bent portion 16 of the hook, the free end of the strap being then passed beneath the keeper 6. When it is desired to use the device, the free extremity of the strap is passed through the opening in which the strap is to be secured, the strap then being twisted slightly and passed edgewise through the slot 11. When the strap is released, it will untwist itself and rest against the transverse bar 18, in the triangular opening 10.

By reason of the fact that the opening 10 is triangular in outline, the strap, when once inserted into the triangular opening cannot well be removed therefrom, saving by deliberate intent, since the converging edges 20 of the triangular opening, engaging the strap, serve to make the twisting of the strap so that the same will pass through the slot 11, a matter of considerable difficulty. Owing to the fact that the axis of the slot 11 is inclined with respect to the longer dimension of the device, the points 14 are formed, and, should the strap accidentally become engaged in the slot 11, and then be drawn upon, these points 14, engaging the strap, will prevent the strap from slipping entirely out of the grip of the device.

Having thus described the invention, what is claimed is:—

A securing device of the character described, consisting of a hook-shaped member having unequal arms, there being transverse keepers upon the arms and a triangular opening in the longer arm, adjacent the end thereof, a portion of the constituent material of the device being struck from one apex of the triangular opening to form a strap-engaging projection, there being a slot in the end of the longer arm, communicating with triangular opening, the axis of which slot is disposed at an angle to the longer dimension of the device.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

CHARLES D. SMITH.

Witnesses:

F. G. CRETORS,
M. A. RUSSELL.