My invention relates to safety catches for brooches, pins or the like, and particularly to a spring locking device for same.

One object of the invention is to provide means whereby the pin is held by pressure contact with balls at the ends of a V-shaped spring catch.

Another object is to provide a positive lock even though the spring arms are not in the fully closed position.

A further object is to provide a simple construction with a minimum of parts.

Further objects will be noted in the following description in connection with the drawings, and in which:

Fig. 1 is a perspective view of the device on a brooch, or the like.

Fig. 2 is a front elevation showing the catch in open position.

Fig. 3 is a front elevation showing the catch in closed position.

Fig. 4 is a side elevation with the catch closed.

Fig. 5 is an opposite side elevation with the catch open.

Fig. 6 is a fragmentary portion similar to Fig. 4 with the lug open.

Referring to the drawings, in detail, the numeral 10 indicates the brooch, pin or the like, with pivot lugs 11 and 12, pivot pin 13 and clasp pin 14 mounted on one end of said brooch, pin or the like. Mounted upon the other end is the spring catch supporting portion which is in one piece bent to form a hook, of which 15 is the stem and 16 the bill, with the opening 17 between the downturned beveled edge 18 and the up-turned edge 19 of the shorter side 20.

Projecting from the sides 15 and 20 are lugs 21 and 22 which are integral with the said sides, lug 21 being originally open at 23, while lug 22 has an aperture 24 into which, when the parts are assembled, one end of the shaft 25 of the spring catch is thrust, and the lever end of the shaft is pressed into the open lug 21 as shown in Fig. 6, the lug 21 then being pressed shut, the lever 26 being on the outside of the lug 21. The shaft 25 can be turned within the said lugs by the action of the lever 26.

Spring catch arms 29 and 30 are integral with the shaft 25, and swing up when the lever is pressed down and thus snap over and engage the pin 14, the said pin being held under the hook 16 and within the V-shaped orifice between the arms 29 and 30 by the ball tips 31 and 32 on the upper ends of the said arms, as shown in Figs. 1, 2 and 4.

If the lever 26 is not pressed completely down, the catch will still lock, so long as the arms 29 and 30 and their appended balls 31 and 32 make contact with the pin 14.

While the pin 14 is engaged by the catch arms 29 and 30 it is impossible to disengage the pin 14 from the hook 16, because it is supported in the notch between the arms, but when said arms are turned down, the pin may be pressed down and sprung out through the opening 17 in the usual way.

I claim:

1. The combination with a pin, of a member having a hook under which the pin may be engaged, and also having a pair of spaced bearing lugs projecting at the base of the hook, and a shaft mounted in said bearings and having an operating lever at one end and also having a pair of projecting arms with a notch between in which the pin is engaged and held under the hook, each arm having a knob at its end engageable over the pin to hold the arms in locked position.

In testimony whereof, I do affix my signature.

MORRIS FOLKMAN.