

(No Model.)

S. E. KELLEY.
CHAIN SNAP.

No. 459,364.

Patented Sept. 8, 1891.

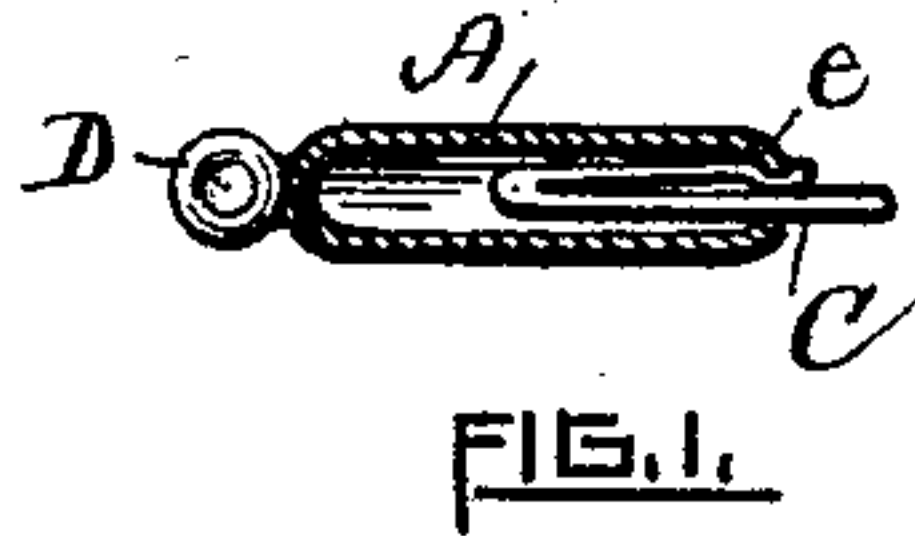


FIG. 1.

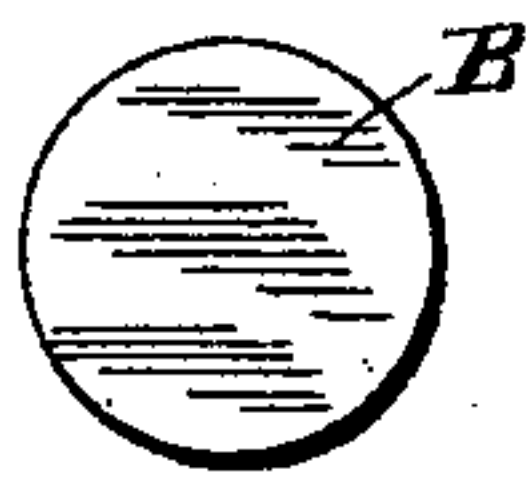


FIG. 2.

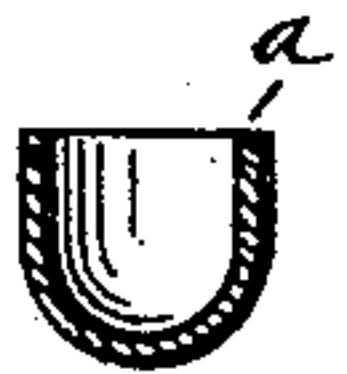


FIG. 3.

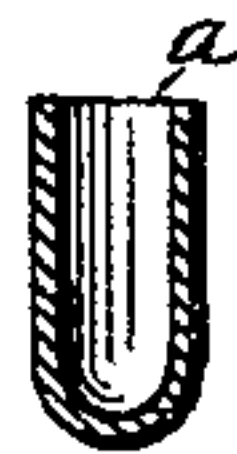


FIG. 4.



FIG. 5.

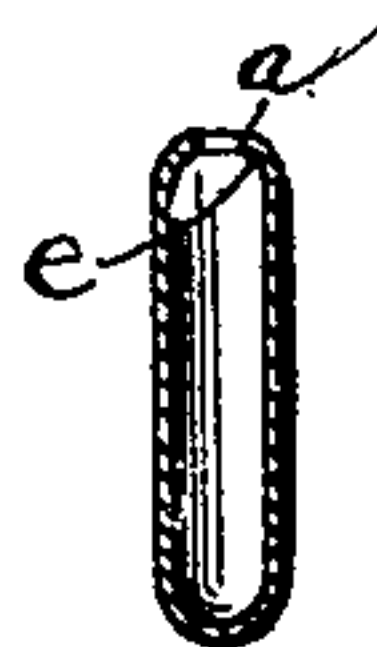


FIG. 6.

WITNESSES.

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UNITED STATES PATENT OFFICE.

SAMUEL E. KELLEY, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO PAYTON
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CHAIN-SNAP.

SPECIFICATION forming part of Letters Patent No. 459,364, dated September 8, 1891.

Application filed May 25, 1891. Serial No. 394,049. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL E. KELLEY, a citizen of the United States, and a resident of Providence, in the State of Rhode Island, have
5 invented a new and useful Improvement in Chain-Snaps and Methods of Making the Same, of which the following is a specification.

Heretofore in the manufacture of chain-snaps it has been customary to fold up a strip
10 of sheet metal to form a tube and after cutting off the required length from the tube so formed soldering the end pieces and ring thereto, and it is the object of my invention to facilitate the manufacture of chain-snaps
15 and to improve their quality; and to this end my invention consists in a seamless drawn chain-snap and in the method of making the same, as hereinafter set forth.

Figure 1 represents a longitudinal section
20 of my improved chain-snap engaged with the click. Fig. 2 represents the sheet-metal blank from which the chain-snap is formed. Fig. 3 represents a section of the cup first formed from the blank. Fig. 4 represents the extension of the cup. Fig. 5 represents the extended cup as partly turned in at its open end. Fig. 6 represents the same as completely
25 turned.

In the accompanying drawings, A repre-

sents the completely-formed seamless chain- 30
snap, made from a sheet-metal blank B, which may be drawn by means of the proper dies in cup form, as shown in Figs. 3 and 4, and then having the edge at the open end *a* of the cup turned inward, as shown in Figs. 5 and 6, and 35
after the open end has been thus turned inward so as to form a proper shoulder *e* to engage with the click C the ring or eye D is to be soldered to the closed end *b*, thus providing for the attachment of a chain thereto. 40

The seamless chain-snap so made presents a very desirable and finished appearance, and can be made with great economy in cost.

I claim as my invention—

1. The described seamless chain-snap, as a 45
new article of manufacture.

2. The described method of making chain-snaps, which consists in drawing a sheet-metal blank into an elongated cup form, then turning the edge at the open end of the cup in- 50
ward to form the engaging-shoulder for the click, and attaching a ring or eye to the closed end of the cup, as set forth.

SAMUEL E. KELLEY.

Witnesses:

SOCRATES SCHOLFIELD,
E. D. F. WILKINSON.