V. NIVOIS.

SHOE-FASTENERS.

No. 195,770. Patented Oct. 2, 1877.

Fig. 1

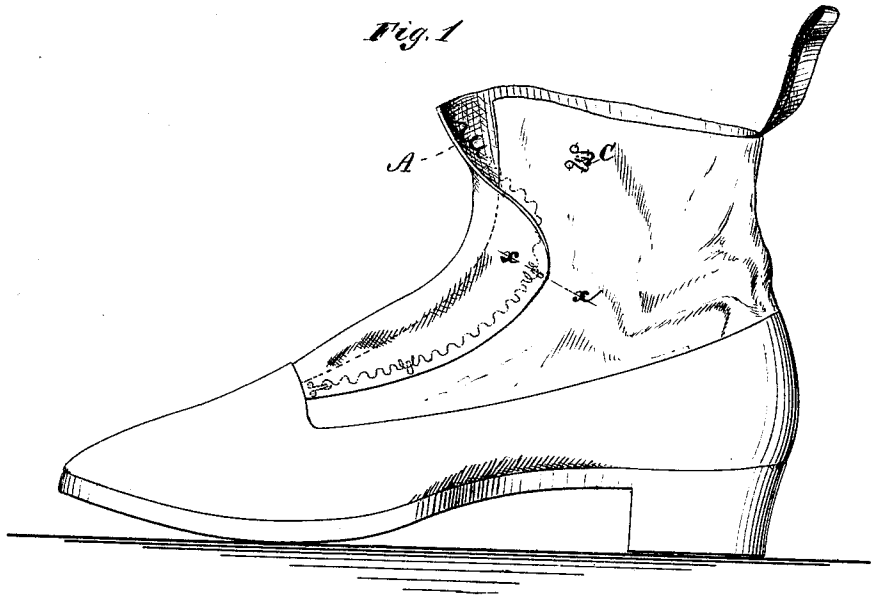


Fig. 2.

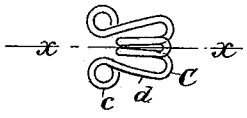


Fig. 3.



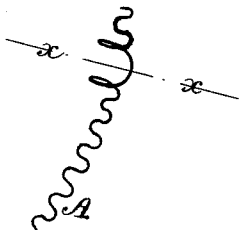


Fig. 4



Fig 7.

Fig. 5.

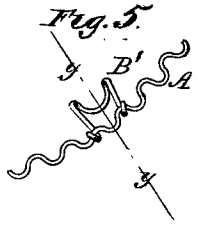


Fig. 6.



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IMPROVEMENT IN SHOE-FASTENERS.

Specification forming part of Letters Patent No. **195,770**, dated October 2, 1877; application filed August 18, 1877.

To all whom it may concern:

Be it known that I, VICTOR NIVOIS, of the city, county, and State of New York, have invented a new and Improved Shoe-Fastener, of which the following is a specification:

Figure 1 is a side elevation of a shoe having my improved fastener attached. Fig. 2 is a detail view of one of the hooks. Fig. 3 is a transverse section of the fastener, taken on line *x x* in Figs. 1, 2, and 4. Fig. 4 is a detail view of the corrugated wire forming a part of the fastener. Fig. 5 is a modification of the same, and Fig. 6 is a transverse section on line *y y* in Fig. 5. Fig. 7 is a detail view of the button.

Similar letters of reference indicate corresponding parts.

The object of my invention is to provide a simple inexpensive fastener for the class of shoes commonly fastened with buttons.

In the drawing, A is the part of the fastener that is applied to the inner surface of the overlapping portion of the shoe. It consists of a single wire bent into a zigzag spring, and having formed in it at intervals loops B, which are bent backward or returned upon themselves, as clearly shown in Fig. 3. An eye, *a*, is formed in the lower end of the part A for receiving an eye, *b*, by which the lower end of the part A is fastened to the shoe. When this portion of the fastener is applied to a shoe it is placed between the lining and the upper, and the loops B project through the lining to receive a hook, C, sewed to the upper of the shoe. This hook is formed from a doubled wire, the ends of which are bent forward and formed into eyes *c*, at the same time forming the loops *d*. The thread used in attaching the hook to the shoe passes through the loop *d* and the eyes *c*.

When the shoe is fastened the hook is prevented from tipping by the eyes *c* and loops *d*, which form a broad base and hold it firmly in its proper position. A modification of this device is represented in Fig. 6, which consists of a wire bent into a uniform zigzag spring, to which a loop, B′, similar to the loop B, is attached by bending its ends over the wire spring.

In Fig. 7 a stud or button, *e*, is represented, which is attached to a perforated plate, *f*, which may be sewed to the shoe in place of the hook.

It is obvious that the wire may be bent into different forms of spring; also, that instead of being formed into a zigzag spring, as described, it may be plain, excepting the loops B; therefore I do not confine myself to the particular forms herein shown and described.

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

1. The single wire A, formed into a zigzag spring, and provided with loops B and eyes *a b*, constructed and arranged as and for the purpose described.

2. The hook C, of forwardly-bent doubled wire, having eyes *c* and loops *d*, as and for the purpose specified.

VICTOR NIVOIS.

Witnesses:
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