

(No Model.)

M. NAYLON.
SHOE FASTENER.

No. 315,819.

Patented Apr. 14, 1885.

Fig. 1.

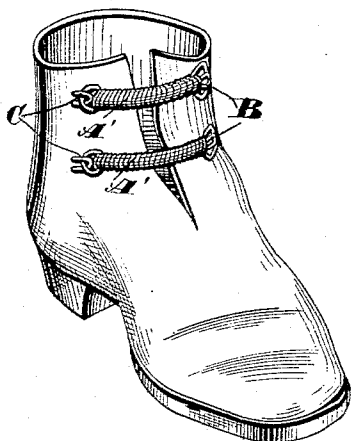


Fig. 2.



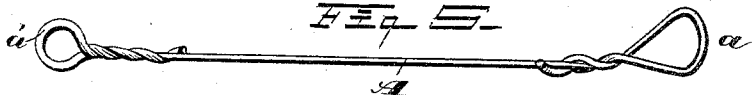
Fig. 3.



Fig. 4.

Fig. 5.

Fig. 6.



WITNESSES

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SHOE-FASTENER.

SPECIFICATION forming part of Letters Patent No. 315,819, dated April 14, 1885.

Application filed January 21, 1885. (No model.)

To all whom it may concern:

Be it known that I, MICHAEL NAYLON, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Shoe-Fasteners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

My invention relates to improvements in elastic shoe-clasps, the object being to provide a cheap clasp, consisting of a spiral spring, the coils of which may be flattened or elliptical, so as to lie flat on the shoe, and with attachments that can be quickly applied without tools, and the arrangement of parts such that a shoe may be quickly removed without unclasp- ing it.

In metal-working industries, more especially in rolling-mills, foundries, &c., the operators not unfrequently get hot or molten metal in their shoes, and in such cases, as I can verify from experience, the operator is anxious to part with his shoe as soon as possible. I have therefore devised a shoe-clasp suitable to such emergencies, the details of which are illustrated in the accompanying drawings.

Figure 1 is a view in perspective of a shoe with my improved clasp attached. Fig. 2 is a view in perspective of the coil-spring and attachment for securing it to the shoe. Fig. 3 is a view in perspective of the hook for engaging the loop of the opposite end of the spring. Fig. 4 is an end elevation showing the form of the coils of the spring. Fig. 5 is a plan view of the wire and loops before the spring is coiled.

A represents the spring-wire of which the coil A' is made. The wire is first cut in suitable lengths and bent back at the ends, forming the loops a and a', and the parts twisted together, as shown in Fig. 5, by means of which the loops are quickly and firmly secured without soldering. The wire is next coiled around a mandrel flattened or elliptical in cross-section. The form of the coil is approximately shown in Fig. 4. This form of spring lies flat on the shoe, and is therefore not as cumbersome as when the coil is

round. The attachments B and C are each of a single piece of wire, the ends of which are pointed, so that they will easily pierce the leather. The wire is bent back in the form of a staple, forming loops, respectively b and c. The loop b is bent back, forming a hook, as shown in Fig. 3, and the loop c is twisted a quarter-turn, as shown in Fig. 2. The ends of this attachment are next bent at about a right angle, as shown at b' and c', and are pressed through the shoe at proper places, and are clinched on the inside of the shoe, the loop a' first being locked in the loop c, as shown in Fig. 2. No skill or tools are required in securing these attachments. The points can be pressed through the leather with the fingers, and almost anything at hand may be used to clinch the points. After the attachments are secured the loop b is easily connected or disconnected with or from the hook, the attachments being placed at such distance apart that considerable tension is had on the spring where the shoe is clasped. The tension of the spring holds the shoe snugly around the ankle and on the instep, but is sufficiently yielding to allow a free movement of the foot and ankle in walking. Any desired number of these clasps may be used, according as the shoe is high or low. In case of emergency the shoe may be removed in an instant without unclasp- ing. These clasps may be furnished at a small initial cost, not much exceeding the ordinary cost of good shoe-strings. These clasps are not especially designed for the finer grades of shoes; but should some caprice of fashion demand their adoption, the clasps may be plated and made quite ornamental, and would be likely to find favor with those who indulge in tight pants or dresses, but cannot afford the luxury of a body servant.

What I claim is—

1. In a shoe-fastener, the combination, with a spiral spring flattened or elliptical in cross-section, and a device for securing said spring to the shoe-upper, of a hook, B, secured to the upper for removably securing the opposite end of the spring to the shoe, substantially as set forth.

2. In a shoe-clasp, the combination with a

spiral spring with loops at the ends, as described, of the attachments B and C, each formed of a single piece of wire with pointed ends, and the loops *b* and *c*, the former bent
5 to form a hook and the latter twisted, as shown, substantially as set forth.

In testimony whereof I sign this specifica-

tion, in the presence of two witnesses, this 24th day of December, 1884.

MICHAEL NAYLON.

Witnesses:

ALBERT E. LYNCH,
CHAS. H. DORER.