

(No Model.)

E. S. COON.
Heel Skate Fastener.

No. 233,204.

Patented Oct. 12, 1880.

Fig. 1.

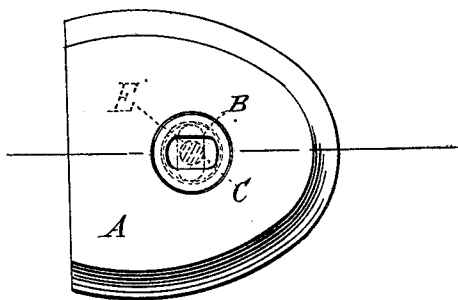


Fig. 2.

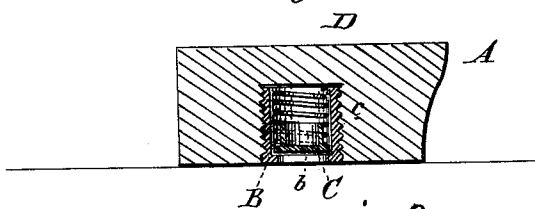
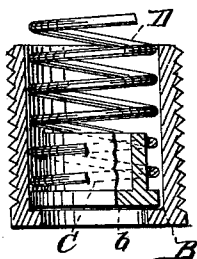


Fig. 3.



WITNESSES:

Francis McArthur
C. Seagwick

INVENTOR:

E. S. Coon

BY

Munn & Co.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

ELIJAH S. COON, OF WATERTOWN, NEW YORK, ASSIGNOR TO ARTHUR L. COON, OF SAME PLACE.

HEEL SKATE-FASTENER.

SPECIFICATION forming part of Letters Patent No. 233,204, dated October 12, 1880.

Application filed March 26, 1880. (No model.)

To all whom it may concern:

Be it known that I, ELIJAH S. COON, of Watertown, in the county of Jefferson and State of New York, have invented a new and useful
5 Improvement in Heel Skate-Fasteners, of which the following is a specification.

My invention consists, essentially, in a plate or plug of circular or cylindrical form, and in certain details relating to the same, and to devices connected therewith, whereby several advantages are obtained, as hereinafter particularly described and set forth.

In the accompanying drawings, Figure 1 is a face view of a heel with my improved fastener in place therein. Fig. 2 is a central vertical section of the same, taken in the line *xx* of Fig. 1. Fig. 3 is a detail sectional enlarged view of the fastener separate from the heel.

Similar letters of reference indicate corresponding parts.

A represents a heel of a boot or shoe, in the center of which a hole is bored with a common auger or bit.

B is a cylindrical hollow plug or thimble, with a screw-thread on its outer surface. The plug or thimble is open at the inner end, and at the outer end is provided with a slot, *b*, for engagement with the heel-key of a skate provided with a heel key or nib.

C is a circular plate fitting nicely, but not tightly, in the thimble B, and held closely against the head or slotted end thereof by a spring, which may be of any suitable description, but is here shown as a coiled-wire spring, D, with its inner end bearing against the bottom of the hole in the heel and its outer end bearing against the inner side of the plate C, said plate being formed with a shank, *c*, surrounded by the outer end of the spring.

The plug or thimble B is screwed into the hole in the heel A with the plate C and spring D in position therein, as shown, until the outer end or head of the thimble is flush with the face of the heel.

The spring D holds the plate C firmly against the inner surface of the head of the thimble, and prevents the entrance of dirt into the interior of the thimble.

When the skate is to be attached, if there should be any dirt collected in the slot *b*, it can be easily removed, so as to enable the heel-

key of the skate to readily engage with the fastener, as illustrated at E in dotted lines in Fig. 1. Said heel-key E pushes in the plate C sufficiently far to allow the key to be turned
5 transversely of the slot, and then the plate C is pressed by the spring D firmly against the key, so as to hold it steady and prevent any motion thereof.

When the skate is turned in order to detach it, the pressure of the spring D and plate C against the heel-key E assists in the removal of the skate, and also forces out any dirt which may have found its way into the slot, and then said plate C lies closely against the head of
65 the thimble so as to cover the slot *b* and prevent the entrance of dirt.

This fastener possesses several advantages over one that is permanently attached to the heel. Being cylindrical, it is more easily connected, because the hole for its reception can be made with a common auger or bit without the necessity for lasting the boot or shoe or using a knife or chisel. Being screw-threaded it can be readily screwed into place with a common
75 screw-driver. Being screw-threaded also enables it to be screwed either in or out, in order to make it fit the heel-key with accuracy, and thereby avoid the difficulties experienced in consequence of the variations in size of heel-key which sometimes exist. Being screw-threaded further enables it to be screwed in beyond the surface of the heel, so as to prevent it from wearing out by the ordinary wearing
80 of the shoe when not skating.

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

1. As an improved article of manufacture, a skate-fastener constructed substantially as
90 herein described, consisting of a screw-threaded hollow plug or thimble, a dirt-plate for covering the opening in the plug, and a spring for holding the dirt-plate in place, as set forth.

2. In heel skate-fasteners, the plug B, constructed in circular form, with a screw-thread upon its exterior, substantially as herein shown and described.

ELIJAH S. COON.

Witnesses:

CLINTON F. GILBERT,
RALPH T. SMITH.