

B. Morahan,

Boot and Shoe Nails.

N^o 24,212.

Patented, Sep. 13, 1864.

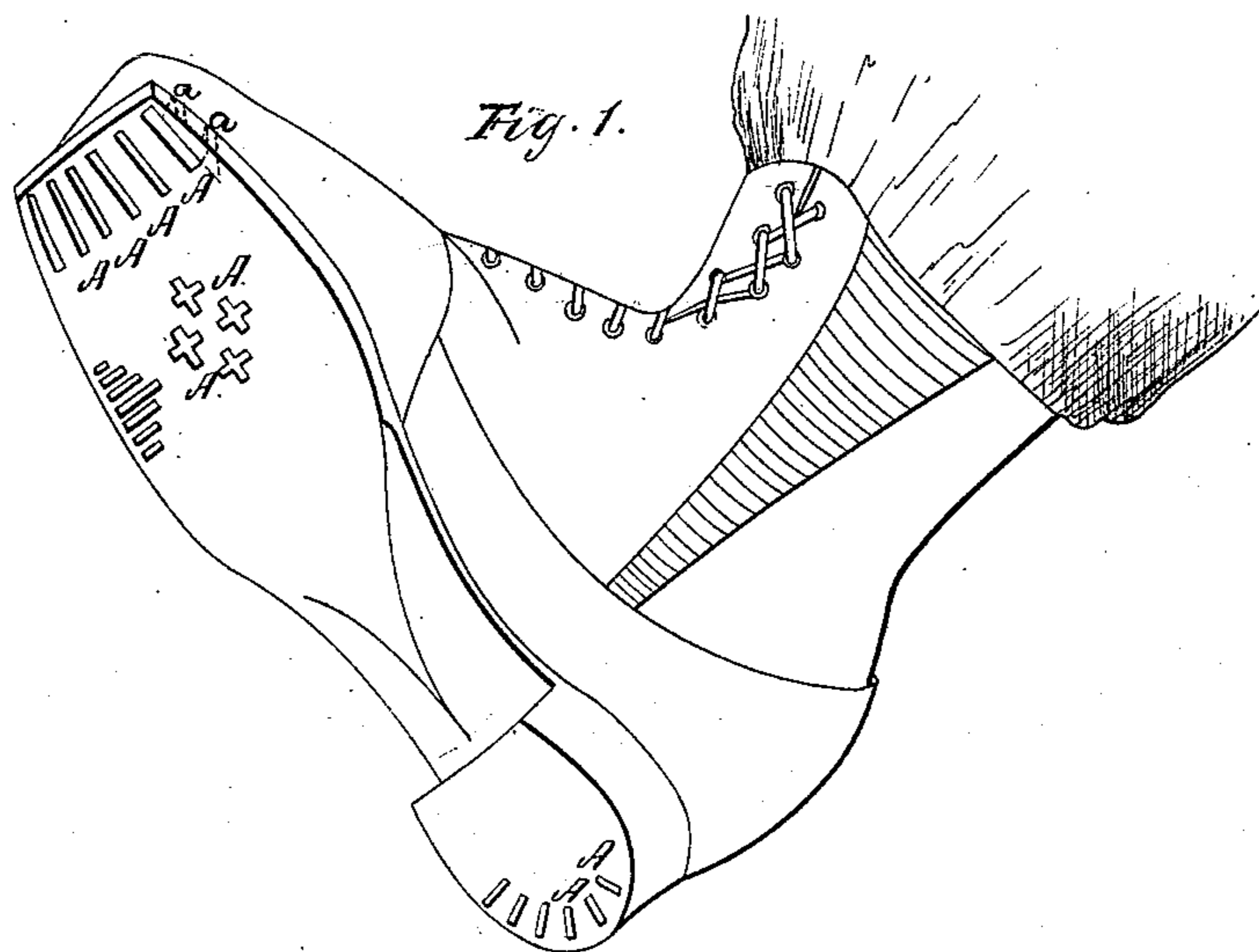


Fig. 2.



Fig. 4.

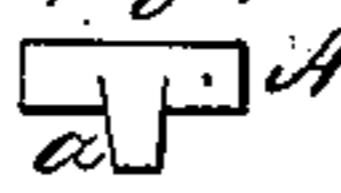


Fig. 5.

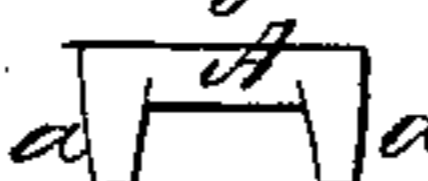


Fig. 6.

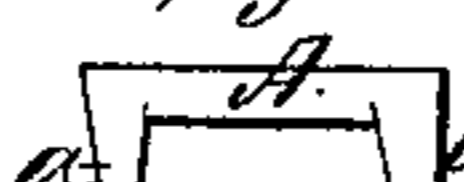


Fig. 7.

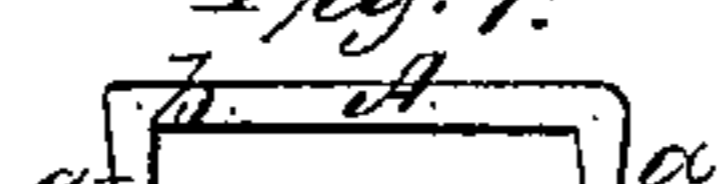


Fig. 8.

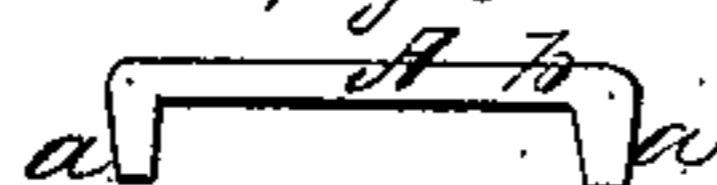


Fig. 3.



Fig. 9.

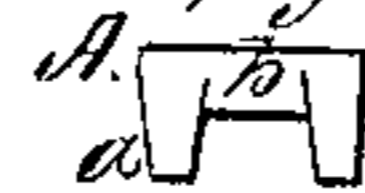


Fig. 10.

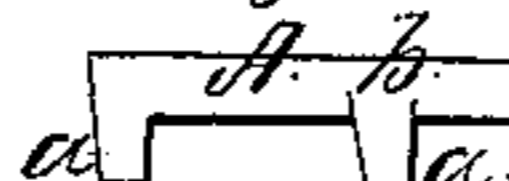


Fig. 11.

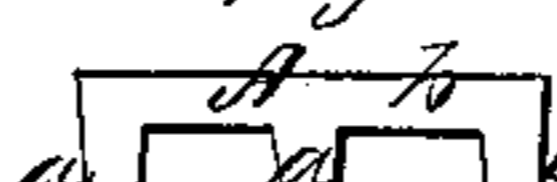


Fig. 12.



Fig. 13.



Witnesses:

*M. M. Livingston
Henry Morris*

Inventor:

Bernard Morahan

UNITED STATES PATENT OFFICE.

BERNARD MORAHAN, OF BROOKLYN, NEW YORK.

BOOT AND SHOE NAILS.

Specification forming part of Letters Patent No. 44,212, dated September 13, 1864.

To all whom it may concern:

Be it known that I, BERNARD MORAHAN, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Nails for Boots and Shoes; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable any person skilled in the art to make and use the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents a perspective view of a shoe having some of my nails driven in its sole. Fig. 2 is an inverted plan of one of my nails. Fig. 3 is a side elevation of the same. Figs. 4, 5, 6, 7, 8, 9, 10, 11 are modifications of the same. Fig. 12 is a transverse vertical section of the nail represented by Fig. 7. Fig. 13 is an end view of that represented by Fig. 8.

Similar letters of reference indicate the same parts.

This invention consists in a nail with a triangular or sharp edged head, and provided with one or more spurs or points in such a manner that on driving the same into the sole of a boot or shoe the head of the nail passes in flush with the leather and protects the same from wear, while at the same time the nail is prevented from being knocked out by coming in contact with a stone or sharp corner, and the accumulation of dirt under its head is avoided.

It consists also in a nail with two or more points or spurs and a sharp-edged top or head extending at one end beyond the spurs in such a manner that, in applying the same to the toe part of the sole, the spurs will enter the sole without coming in contact with the seam, and still the top or head of the nail will extend and protect the sole close to its front edge.

A represents a nail made with one or more spurs or points *a*, which are inserted in or rigidly connected to the top or head *b*.

In practice the head and spurs will be made solid by suitable machinery. The head *b* is made triangular or it is so shaped that it presents a sharp edge at its bottom, as clearly

shown in Fig. 12, so that on inserting the nail into the sole of a boot or shoe said nail enters the leather flush with its surface. By these means the accumulation of dirt under the head of the nail is prevented, and furthermore the nail is prevented coming in contact with sharp corners, and it is therefore not liable to be knocked out.

When used to protect the toe part of a sole, the nail is made with two spurs, as shown in Fig. 10, and its head or top projects beyond one of said spurs, so that on driving the same into the sole the spur will not injure the seam, and still the head will extend close to the front edge of the sole and protect the same from wear at that point, where it is more liable to wear out. In some cases the spurs will be twisted, as shown in Figs. 8 and 13, so that on driving the nail in the leather said spurs enter in different directions and retain their hold with increased tenacity.

My nails are suitable for all parts of the sole or for the heel, and they may be inserted at any moment, according to the want or necessity of the person wearing such boot or shoe. Some persons wear their soles more on one spot than others, and such persons are enabled by means of my nails to give special protection to those parts which they are liable to wear out quickest.

When made by proper machinery, these nails can be made cheap and in any desirable shape, and they will be of particular advantage to heavy shoes or boots, such as used by soldiers in the army.

What I claim as new, and desire to secure by Letters Patent, is—

1. A nail, *A*, for boots and shoes, with one or more spurs, *a*, and with a sharp edged head, *b*, as specified.
2. A nail provided with two or more spurs and having its head extended beyond one or both spurs, as shown in Fig. 10.

BERNARD MORAHAN.

Witnesses:

HENRY MORRIS,
M. M. LIVINGSTON.