

(No Model.)

F. W. TILDEN.

SLED SHOE.

No. 397,617.

Patented Feb. 12, 1889.

Fig. 1.

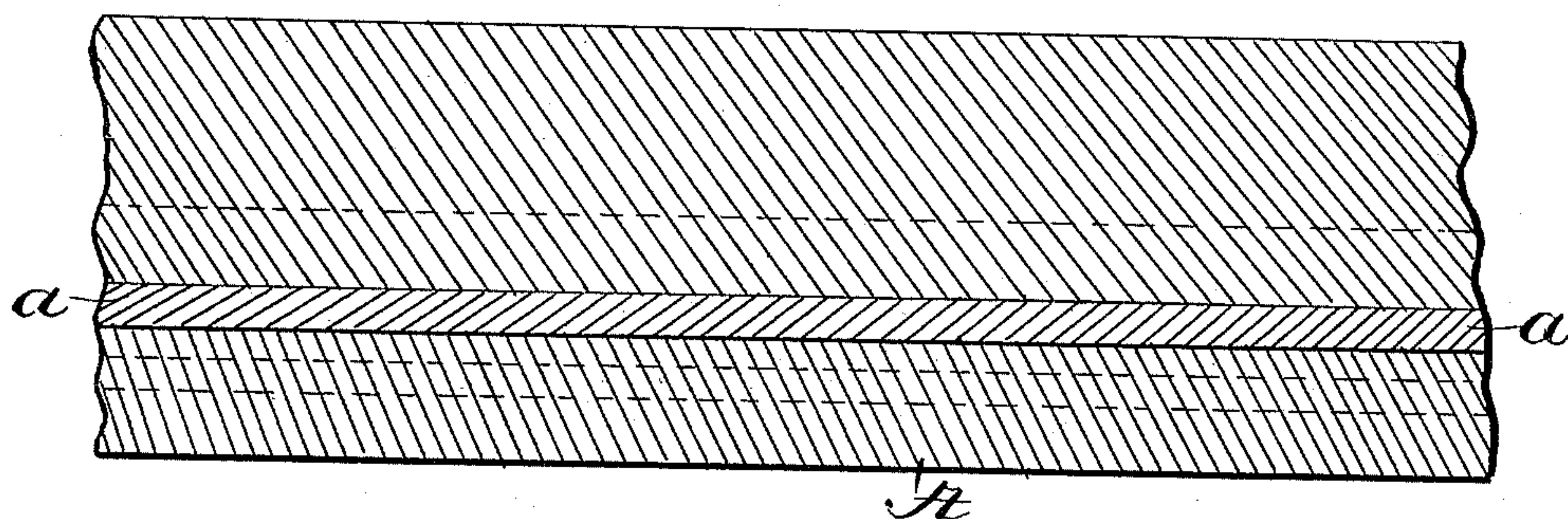
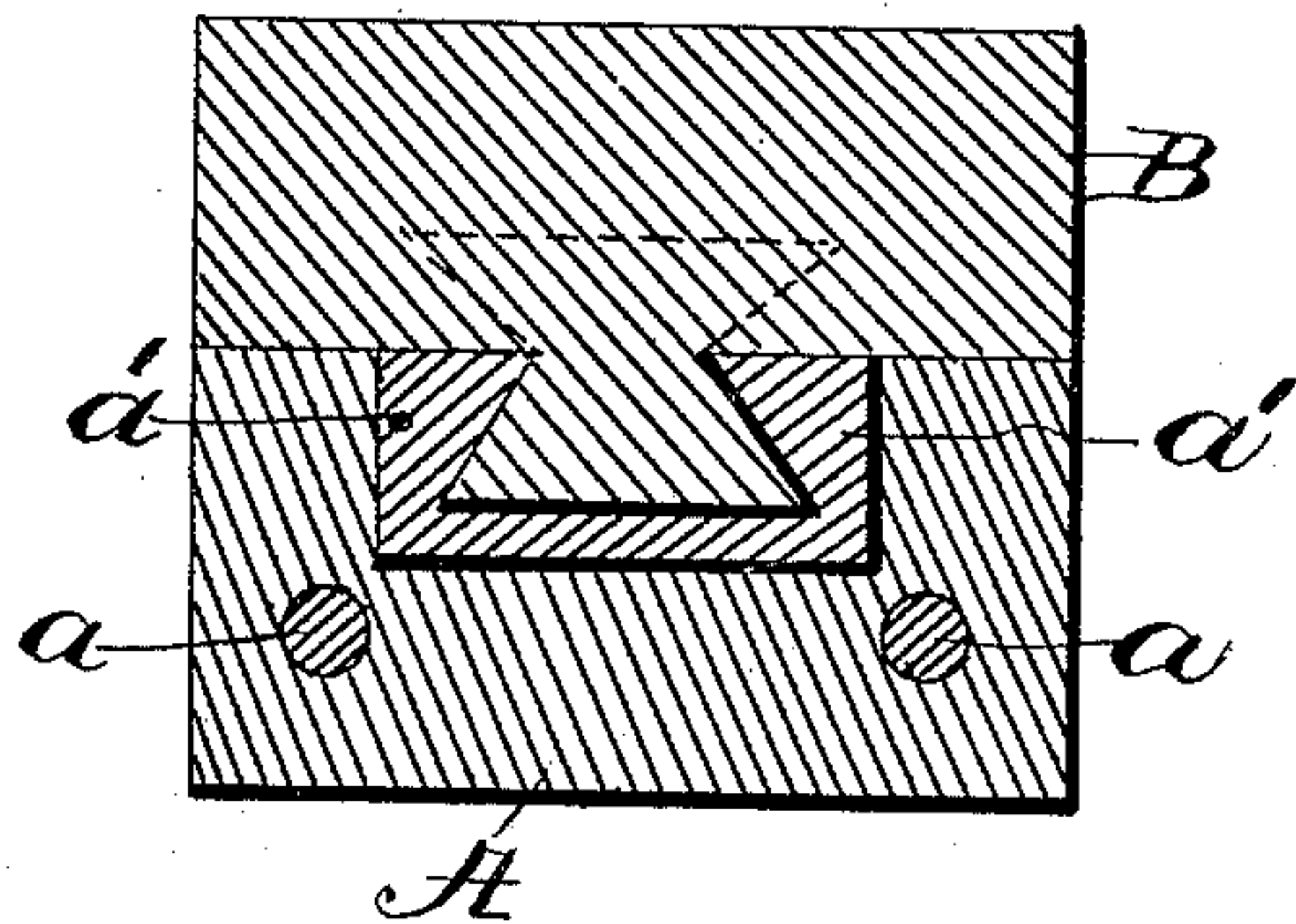


Fig. 2.



Witnesses.
O. Fred Steller.
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UNITED STATES PATENT OFFICE.

FRANK W. TILDEN, OF HINSDALE, NEW HAMPSHIRE, ASSIGNOR OF ONE-HALF TO CHARLES D. MERRIMAN, OF SAME PLACE.

SLED-SHOE.

SPECIFICATION forming part of Letters Patent No. 397,617, dated February 12, 1889.

Application filed October 19, 1888. Serial No. 288,545. (No model.)

To all whom it may concern:

Be it known that I, FRANK W. TILDEN, a citizen of the United States, residing at Hinsdale, in the county of Cheshire and State of New Hampshire, have invented certain new and useful Improvements in Sled-Shoes; 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 appertains to make and use the same.

My invention has for its object to provide a novel construction in sled-shoes, which consists of cast-iron or other metal of hard nature, and which is made applicable to this purpose by casting bars within it during the operation of casting, one of which is provided with a dovetail groove for receiving a dovetail formed upon the runner, by which means a fastening device is obtained, as will be hereinafter described and claimed.

In the accompanying drawings, in which corresponding parts are designated by similar letters, Figure 1 is a sectional view of my invention, and Fig. 2 is a section taken on the line *xx* of Fig. 1.

Referring to the drawings, A represents a casting of any waste or brittle metal; but by preference cast-iron is used. One or more wrought-iron or steel rods or bars of any desired shape, *aa*, are cast within it during the operation of casting, running lengthwise, render-

ing it strong and not liable to become broken, as would be the case if cast-iron alone be used. A third bar, *a'*, is also cast within the shoe, provided with a dovetail groove, which receives a dovetail formed upon the runner B, by means of which a fastening device for the shoe is obtained.

Heretofore, as a general rule, sled-shoes have been made of wrought-iron, and as that metal is of a soft nature it soon becomes worn and must be replaced by others, which is expensive. It has been found by practice that hard cast-iron gives better wear; but as it is very brittle it could not heretofore be used for this purpose.

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

As a new article of manufacture, the herein-described sled-shoe, consisting of cast-iron or other metal having bars cast within it during the operation of casting, one of which is provided with a dovetail groove for receiving a dovetail formed upon the runner, substantially as herein shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK W. TILDEN.

Witnesses:

WILLIE H. SMITH,
GEO. S. WILDER.