

(No Model.)

J. W. GUICE.
METAL SHOE SOLE.

No. 495,131.

Patented Apr. 11, 1893.

Fig. 3.

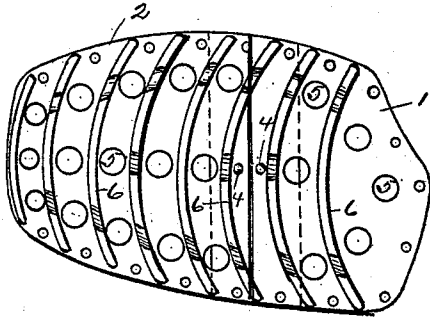


Fig. 2.

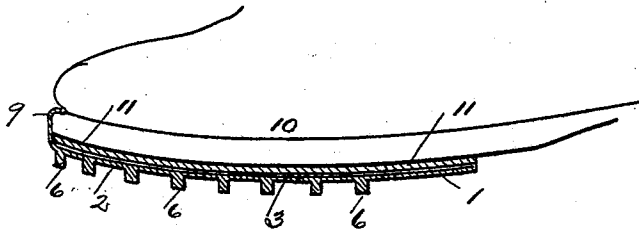
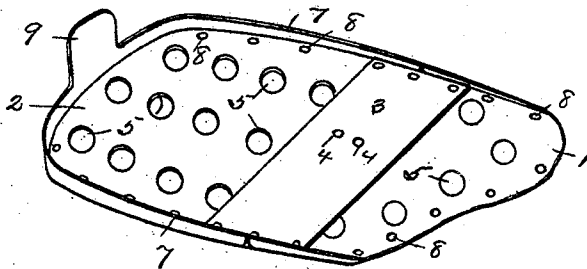


Fig. 1.



Witnesses:

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Inventor.

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UNITED STATES PATENT OFFICE.

JOHN W. GUICE, OF McKEESPORT, PENNSYLVANIA.

METAL SHOE-SOLE.

SPECIFICATION forming part of Letters Patent No. 495,131, dated April 11, 1893.

Application filed August 8, 1892. Serial No. 442,495. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. GUICE, a citizen of the United States, residing at McKeesport, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Metal Shoe-Soles; 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, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improved metal shoe sole, and consists in certain details of construction, and combination of parts as will be fully described hereinafter.

In the accompanying drawings, Figure 1 is a perspective view of my improved metal shoe sole, detached from the shoe; which is constructed in accordance with my invention. Fig. 2 is a sectional side elevation of the same attached to a shoe, and showing an intermediate lining of asbestos board. Fig. 3 is an inverted plan view of my improved metal shoe sole, showing the projecting ribs, the annular openings, and means for attaching the said sole to the shoe.

To put my invention into practice I cast from malleable iron a thin sheet of metal of the form of the sole of a shoe, and having a series of projecting ribs 6, arranged in parallel curved lines, and an upwardly projecting integral flange 7, about the periphery of the same. This plate is divided into two sections 1—2, which are attached together by means of a metallic plate 3, of spring steel, and two rivets 4. The front portion of this sectional plate is provided with an integral portion 9, which is bent over the sole in a manner that will protect the toe, and at the same time serve to hold that portion of the plate 2, in position. Formed about the periphery of the two plates is a series of small holes 8, for the reception of screws, small nails or other means of attaching the sole to the shoe 10.

A piece of asbestos board 11, is placed between the metal sole, and the sole of the shoe, which serves as a non-conductor of heat or cold, and renders the sole more pliable, and elastic. These metal soles are for use on heavy mill shoes, and the advantages over those now in use are: the sole will be as light, cheap, and durable as possible, and being constructed in two sections joined by a strip of spring steel the sole of the shoe will have the necessary elasticity, and permit vibration which is desirable in this class of shoes. The asbestos lining, which will keep the metal sole from direct contact with the shoe, and make a perfect non-conductor of heat, and cold, and at the same time give elasticity to the shoe.

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

1. A metal shoe-sole constructed of two sections, the meeting edges of which are arranged transversely of the shoe, and a transverse plate of thin sheet metal rigidly secured to and connecting the two sections, said sections being each provided with an upward projecting rim, and one section with an upward projecting toe-piece, substantially as described.

2. A metal shoe-sole constructed of two sections, the meeting edges of which are arranged transversely of the shoe, each section being provided with a series of integral projecting ribs arranged in parallel curved lines and openings between the ribs, and a transverse plate of thin sheet-metal rigidly secured to and connecting the two sections, said sections being each provided with an upward projecting rim, and one section with an upward-projecting toe-piece substantially as described.

In testimony that I claim the foregoing I hereunto affix my signature this 5th day of July, A. D. 1892.

JOHN W. GUICE. [L. S.]

In presence of—

JAMES STRATTON,
W. E. AUGHINBAUGH.