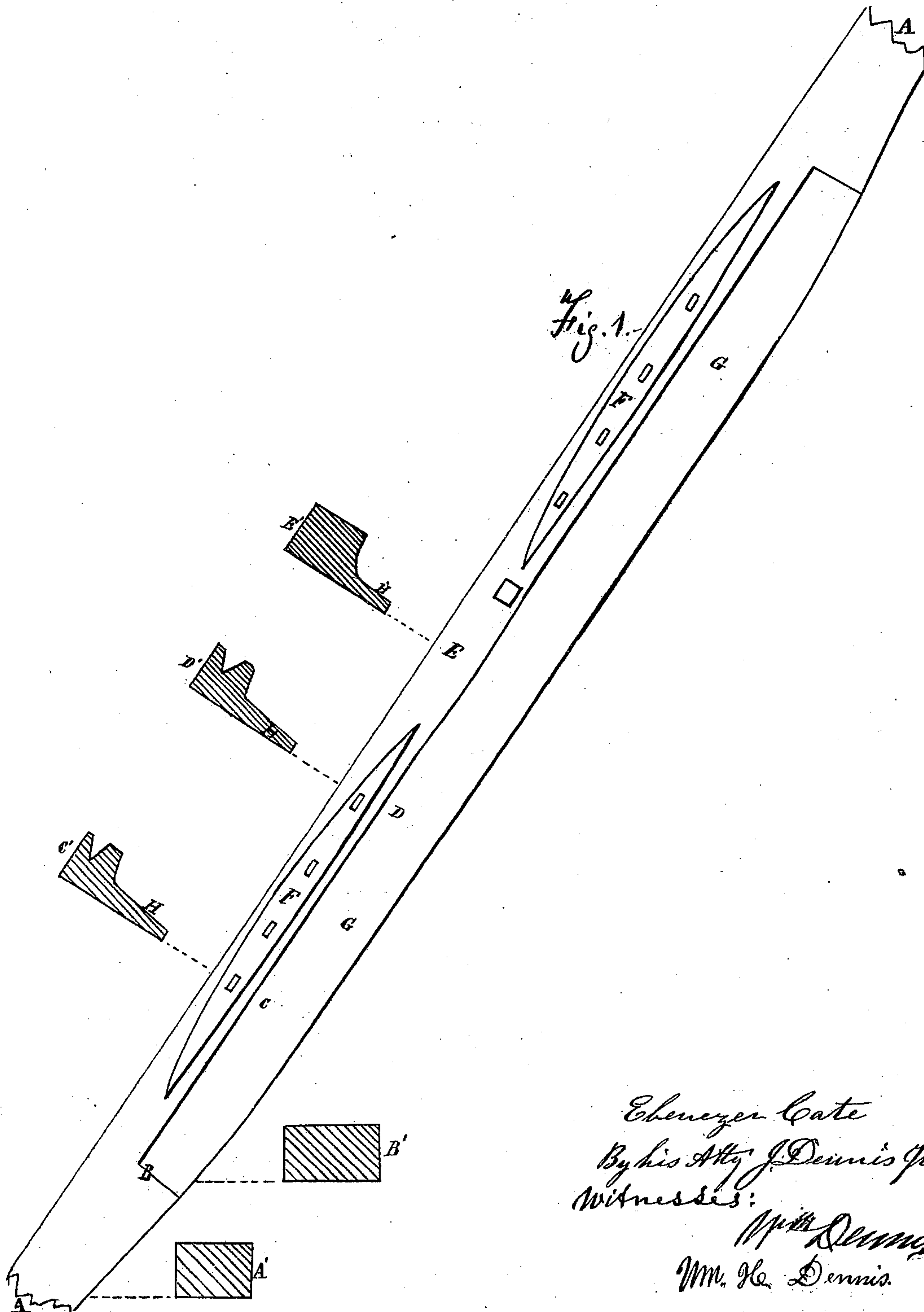


E. Cate,
Horseshoe Bar.

No. 109,586

Patented Nov. 29. 1870.



Ebenezer Cate
By his Atty J. Dennis Jr
Witnesses:
J. M. Dennis
Wm. H. Dennis

United States Patent Office.

EBENEZER CATE, OF WATERTOWN, MASSACHUSETTS.

Letters Patent No. 109,586, dated November 29, 1870.

IMPROVEMENT IN HORSE-SHOE BARS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, EBENEZER CATE, of Watertown, Middlesex county, in the State of Massachusetts, have invented certain new and useful Improvements in Horse-Shoe Iron; and I hereby declare the following to be a full and exact description thereof, reference being had to the accompanying drawing forming part of this specification.

The nature or essence of my invention consists in a bar of iron rolled or swaged alternately, with and without a rabbet and groove or flange and groove, to adapt it to making horse-shoes when bent into proper shape or form for the foot of the horse.

In the accompanying drawing—

Figure 1 shows a bar of my improved horse-shoe iron flatwise, and the several small figures show sections of the bar opposite the dotted lines which connect them with the figure of the bar.

My improved bars of horse-shoe iron are intended to be separated at the points A A, and the piece between said points forms a shoe when it is bent in proper form to fit the foot of the horse.

The section A' shows the form of the bar at A, and the section B' shows the form of the bar at B, and the section C' shows the form of the bar at C, and the section D' shows the form of the bar at D, and the section E' shows the form of the bar at E,

which is the center of the toe of the shoe, and A the heel.

F is the groove for the heads of the nails which fasten the shoe to the hoof. This groove may have points for the holes at the proper points in it.

G is a rabbet, forming a flange, H, as shown in the drawing. If desired, a toe-calk, and also a lip on the opposite side, may be formed on the bar in rolling.

My improved horse-shoe iron makes shoes with heavy heels and toes, and a broad tread or bearing-surface for the hoof, and particularly adapts the shoes for heavy draft-horses, which draw and back heavy loads.

Having described above my improved rolled or swaged horse-shoe iron,

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

The above-described bar horse-shoe iron, constituting series of blanks for horse-shoes, the same being creased, and each blank having, along its middle part only, the rabbet G, forming the flange H, while the parts at and toward the ends forming the heels of the shoe are without said rabbet, and rectangular in cross-section, substantially as described and shown.

Witnesses: EBENEZER CATE.

THOS. WM. CLARKE,
FRANK G. PARKER.