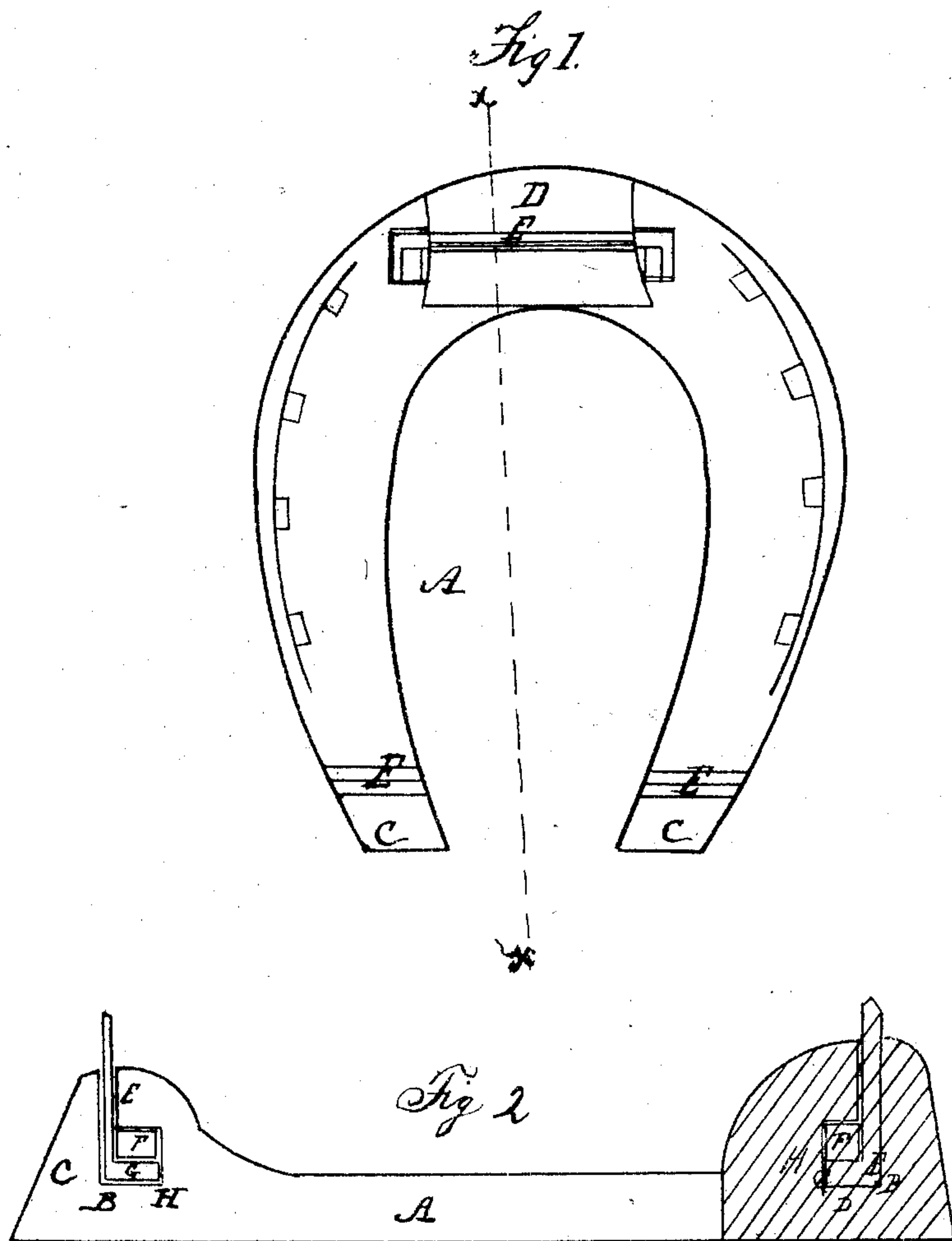


A. S. Hopson.

Horse-Shoe.

N^o 76078

Patented Mar. 31, 1868.



Witnesses.
Theo Frische
J. A. Fraser

Inventor.
A. S. Hopson
Per Munn
Atty's

United States Patent Office.

ALBERT S. HOPSON, OF PLAINVIEW, ASSIGNOR TO HIMSELF AND S. C. HARLAN, OF RED WING, MINNESOTA.

Letters Patent No. 76,078, dated March 31, 1868.

IMPROVEMENT IN HORSE-SHOES.

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, ALBERT S. HOPSON, of Plainview, in the county of Wabashaw, and State of Minnesota, have invented a new and useful Improvement in Horse-Shoes; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings forming part of this specification.

The present invention consists, first, in making a horse-shoe of wrought, cast, or malleable iron, with a slot or opening at heel and toe for the reception of calks that are slid in from one side, and there secured in any suitable manner; second, in making the calks of iron or steel, so constructed with a rib or projection at one end that they may be secured within the slots of the horse-shoe, suitably formed therefor by means of keys or wedges acting upon such rib or projection. In the accompanying plate of drawings my improvements in horse-shoes are illustrated—

Figure 1 being a plan or top view of the treading surface to a horse-shoe made according thereto, and

Figure 2 a section taken in the plane of the line *x x*, fig. 1.

Similar letters of reference indicate corresponding parts.

A, in the drawings, represents a horse-shoe, which I make of wrought, cast, or malleable iron, with an opening or slot, B, in each toe C, and at and across the heel D. These slots, B, are for the reception of calks E, that are slid into place from one side or the other of the shoe, wherein, by means of wedges or keys F, they are secured and held. The calks E, I make of either steel or iron, and at one end with a rib or projection, G, which sets into the enlarged inner end or portion H of the slots B, where, by means of the wedges or keys F driven into such enlarged portion over and upon the upper side of the said ribs G, they are held and secured.

By driving the edge below the ribs to the calks in the slots, instead of above the same, or by driving wedges both above and below, it is plainly obvious the distance to which the calks project from the shoe will be correspondingly more or less.

By securing the calks in the manner above described, it is plainly obvious that to remove them, and insert new ones, it does not require that the shoe should be detached from the hoof—an advantage of much importance.

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

In combination with the horse-shoe, having slots or openings at the toes and heel, the calks, when provided with a rib or projection, and secured by wedges or keys, substantially as and for the purpose specified.

ALBERT S. HOPSON.

Witnesses:

IRA B. POPE,

U. F. SARGENT.