(No Model.)

J. D. BILLINGS.

HORSESHOE.

No. 265,567. Patented Oct. 10, 1882.

Fig. 1.

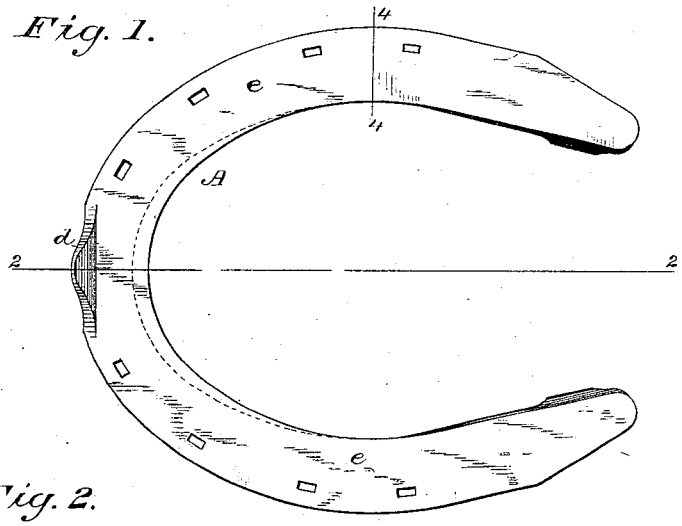


Fig. 2.

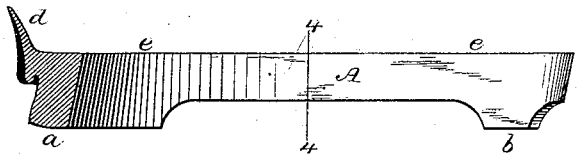


Fig. 3.

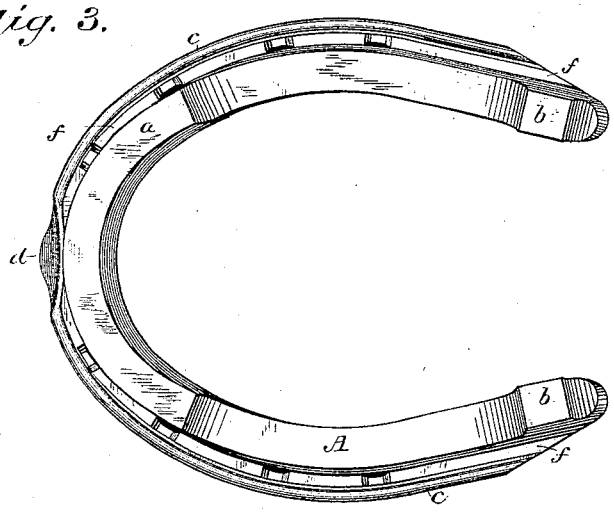
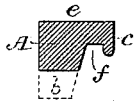


Fig 4



WITNESSES

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UNITED STATES PATENT OFFICE.

JOHN D. BILLINGS, OF NEW YORK, N. Y.

HORSESHOE.

SPECIFICATION forming part of Letters Patent No. 265,567, dated October 10, 1882.

Application filed February 14, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOHN DOUGLASS BILLINGS, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Horseshoes, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention relates to horseshoes which are designed to resist the wear incident to travel upon stone pavements.

The invention consists in certain peculiarities of construction, as hereinafter described and claimed.

Figure 1 is a plan or top view of this improved horseshoe. Fig. 2 is a transverse section on line 2 2 of Fig. 1. Fig. 3 is a bottom view. Fig. 4 is a transverse section on line 4 4 of Fig. 2.

The body A of the shoe is provided with a long toe-calk, *a*, and short heel-calks *b b*, and with an outwardly-projecting grooved flange *c*, the whole being formed in one piece from rolled bar metal, either iron or steel or a combination of both. The toe-calk extends around the entire front of the shoe, being from three to five inches in length, according to the size of the shoe, and is beveled or flared outward in line with the bevel of the inner face of the shoe, with which it forms a continuous surface. The ends of this calk being transverse, or nearly so, to the line of draft, they serve as catches or holds and prevent slipping. The heel-calks are uniform with the body of the shoe, and vary in length from one-fourth of an inch to one inch in length, according to the size of the shoe. The calks are from three-fourths of an inch to one inch in depth, as measured from the upper face of the shoe to the lower face of the calk, and from one-fourth to three-fourths of an inch in width. The body of the shoe between the toe and heel calks is from one-half to five-eighths of an inch in depth, and extends below the outer rim of the grooved flange, imparting strength to the shoe and serving as a protection to the heads of the nails. The upper face or platform, *e*, is flat and of uniform width, except at the heels, where the flange is trimmed off. A clip, *d*, is swaged up on the front of the shoe. The groove *f* in the flange constitutes the nail-crease, which extends from heel to heel, passing in front of the toe-calk, and enabling the shoe to be nailed opposite the latter, thereby securing the shoe firmly upon the foot.

What is claimed as the invention is—

1. A horseshoe having a long toe-calk and short heel-calks integral with the body of the shoe, and a continuous grooved flange extending from heel to heel outside the calks, whereby the shoe may be nailed in front of the long toe-calk as well as between the toe and heel calks, substantially as described.

2. A horseshoe having a beveled inner edge, separate toe and heel calks integral with the body of the shoe, which calks are beveled in continuity with the bevel of the inner edge, and a continuous grooved flange extending from heel to heel outside the calks, substantially as described.

3. A horseshoe having separate toe and heel calks integral with the body of the shoe, and a continuous groove and rim extending from heel to heel outside the calks, the body of the shoe between the calks projecting below the rim, whereby the shoe is strengthened and the heads of the nails protected, substantially as described.

4. A horseshoe having separate toe and heel calks integral with the body of the shoe, the toe-calk being extended around the entire front of the shoe, and the ends thereof being transverse, or nearly so, to the line of draft, whereby said toe-talk is adapted to sustain the greater wear at this point and its ends adapted to serve as holds, substantially as described.

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

JOHN DOUGLASS BILLINGS.

Witnesses:

CHARLES H. BILLINGS,

ALBERT R. HERBERT.