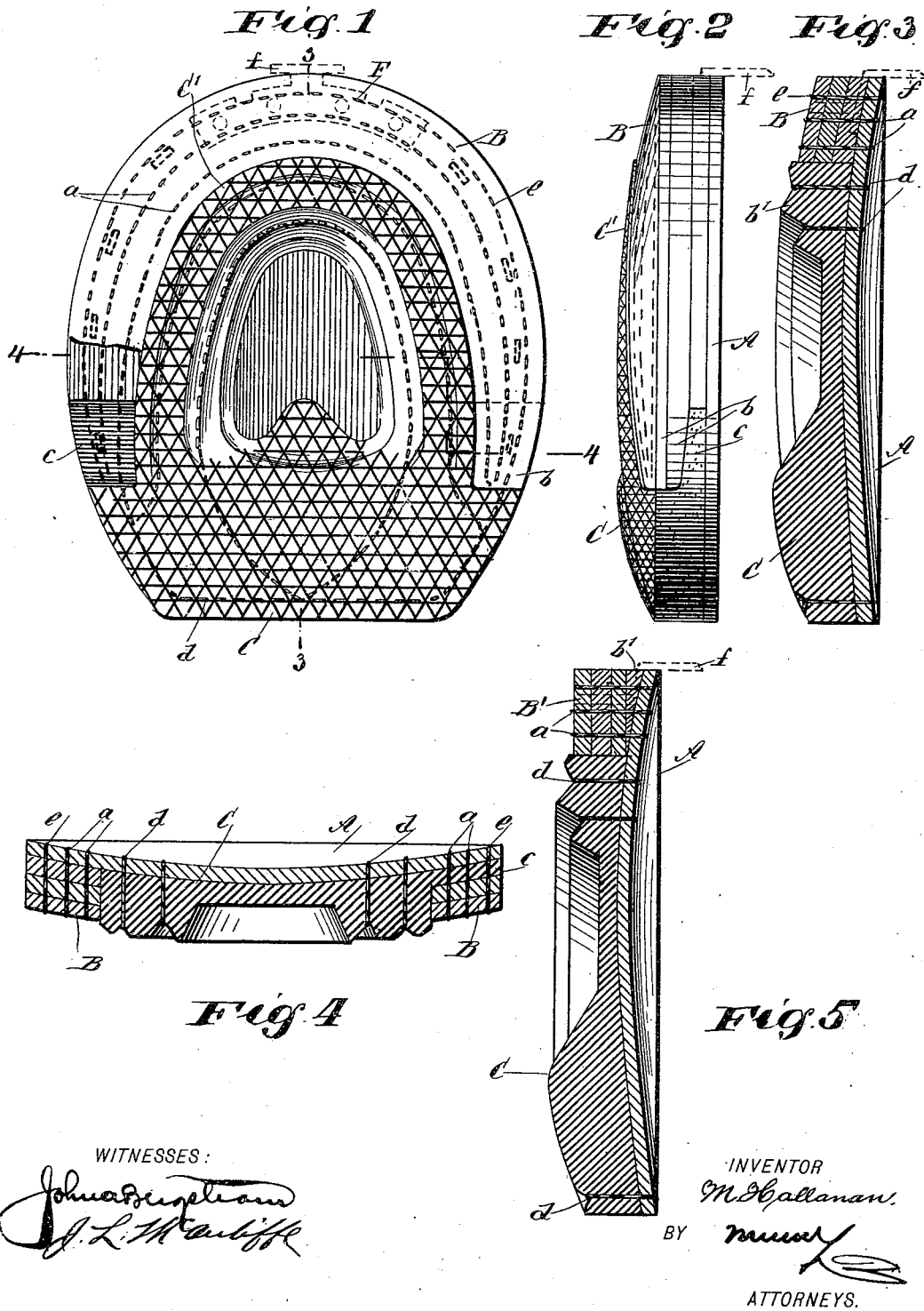


No. 646,213.

Patented Mar. 27, 1900.

M. HALLANAN.
HORSESHOE AND PAD.
(Application filed June 21, 1898.)

(No Model.)



UNITED STATES PATENT OFFICE.

MICHAEL HALLANAN, OF NEW YORK, N. Y.

HORSESHOE AND PAD.

SPECIFICATION forming part of Letters Patent No. 646,213, dated March 27, 1900.

Application filed June 21, 1898. Serial No. 684,041. (No model.)

To all whom it may concern:

Be it known that I, MICHAEL HALLANAN, of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Horseshoe and Pad, of which the following is a full, clear, and exact description.

The object of my invention is to provide an improved shoe for horses and the like as a substitute for metallic shoes and which among other advantageous features will possess the merit that it may be trimmed to fit different-sized hoofs, will have the necessary wearing qualities, and will prevent jar on the feet.

In carrying out my invention I provide a built-up leather shoe, and I preferably combine it with a rubber pad and a back plate of leather or equivalent material, all as hereinafter particularly described, and defined in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a face view of a combined shoe and pad embodying my invention, part of the shoe being broken away. Fig. 2 is a side view thereof. Fig. 3 represents a longitudinal section taken on the line 3 3 of Fig. 1. Fig. 4 represents a cross-section on the irregular line 4 4 of Fig. 1; and Fig. 5 is a view similar to Fig. 3, but showing a slight modification.

The back plate A, of leather or other suitable material, is shaped to conform in general to the outline of a horse's hoof, and on this plate I form a shoe B, of leather, which ordinarily will be built up of several layers, as shown, all sewed together and to the back plate A by rows of stitching *a*. By thus sewing the layers forming the shoe B to the back plate, which is done when the leather is wet, the greater thickness at the edge will in shrinking give the back plate a concave form without previous shaping. The concave form gives strength and maintains the plate away from the natural frog, so as not to bear on the latter, this action of the plate being especially desirable with feet having navicular disease or tender from other cause.

The shoe built up as described is preferably combined with a rubber pad which in the in-

stance shown comprises the frog C, having rabbeted lateral extensions *c* at the heel, and the bead or ridge *C'*, which extends around the inside of the shoe B. This pad in itself is not claimed in the present application, as it forms the subject of Patent No. 549,511, granted to me November 12, 1895. In the present invention, however, I overlap the rear ends *b* of one or more layers of the shoe B onto the rabbeted extensions *c* and unite these overlapped portions by the rows of stitching *a*. The pad C is also united to the back plate by rows of stitching *d*, and the stitching is continued, as at *e*, through the overlapping ends *b* and around the shoe B. This construction gives a foot-covering which will be almost noiseless, possess wearing qualities equal to or greater than metallic shoes, and relieve the feet of all jar. Further, the leather back plate and shoe may readily be trimmed down to fit different-sized hoofs, and thereby a fewer number of standard sizes need be made up for the market.

In Fig. 5 I have shown a pad in which the layers of leather in the shoe B' are so proportioned and shaped as to present an approximately-flat face when the shoe is in its shrunk or finished shape, while in the other figures the shoe follows somewhat the form of the back plate. In Fig. 5 one of the layers *b'* of the shoe is wedge-shaped as one means of accomplishing the stated object.

If desired, toe-clips *f* on a plate F may be provided and secured in any suitable manner, as indicated in dotted lines in Figs. 1, 2, and 3.

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

1. A foot-covering for horses and the like, comprising a leather shoe on the tread side, and a concaved back plate located on the hoof side and covering entirely the space between the members of the shoe.

2. A foot-covering for horses and the like, comprising a shoe formed of leather, a pad fitted in the space between the members of the shoe on the tread side thereof, and a back plate covering entirely the space between the members of the shoe on the hoof side thereof.

3. A foot-covering for horses and the like, comprising a shoe formed of leather, a pad

fitted in the space between the members of the shoe on the tread side thereof, the pad and shoe having overlapped portions which are sewed together.

- 5 4. A foot-covering for horses and the like, comprising a back plate, a leather shoe sewed to the back plate, and a pad sewed to the back plate and having portions which are overlapped by the shoe and sewed to the latter.
- 10 5. A foot-covering for horses and the like,

comprising a back plate of leather, a rubber pad having rabbeted lateral extensions, and a leather shoe sewed to the back plate, the shoe further overlapping the rabbeted extensions of the pad and being sewed thereto.

MICHAEL HALLANAN.

Witnesses:

EVERARD BOLTON MARSHALL,
J. L. MCAULIFFE.