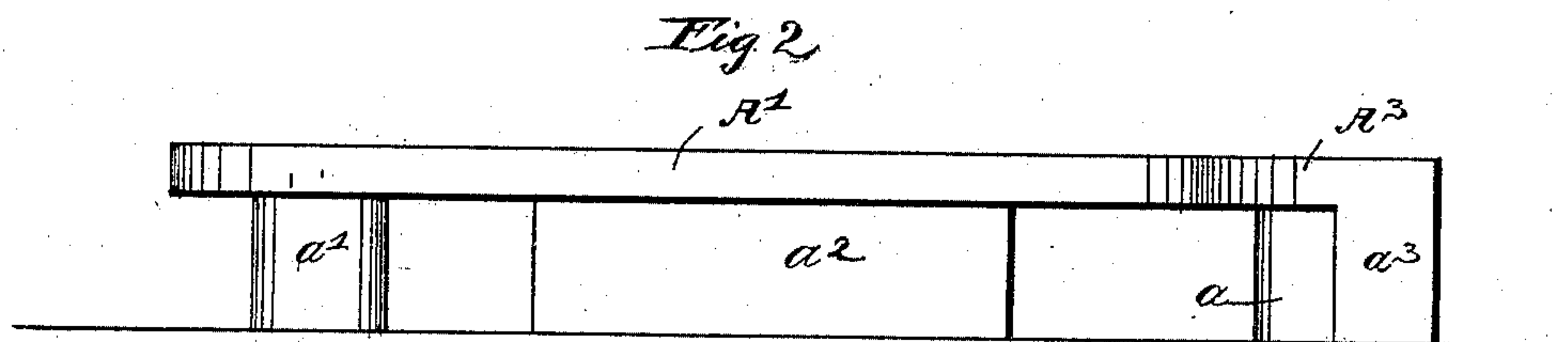
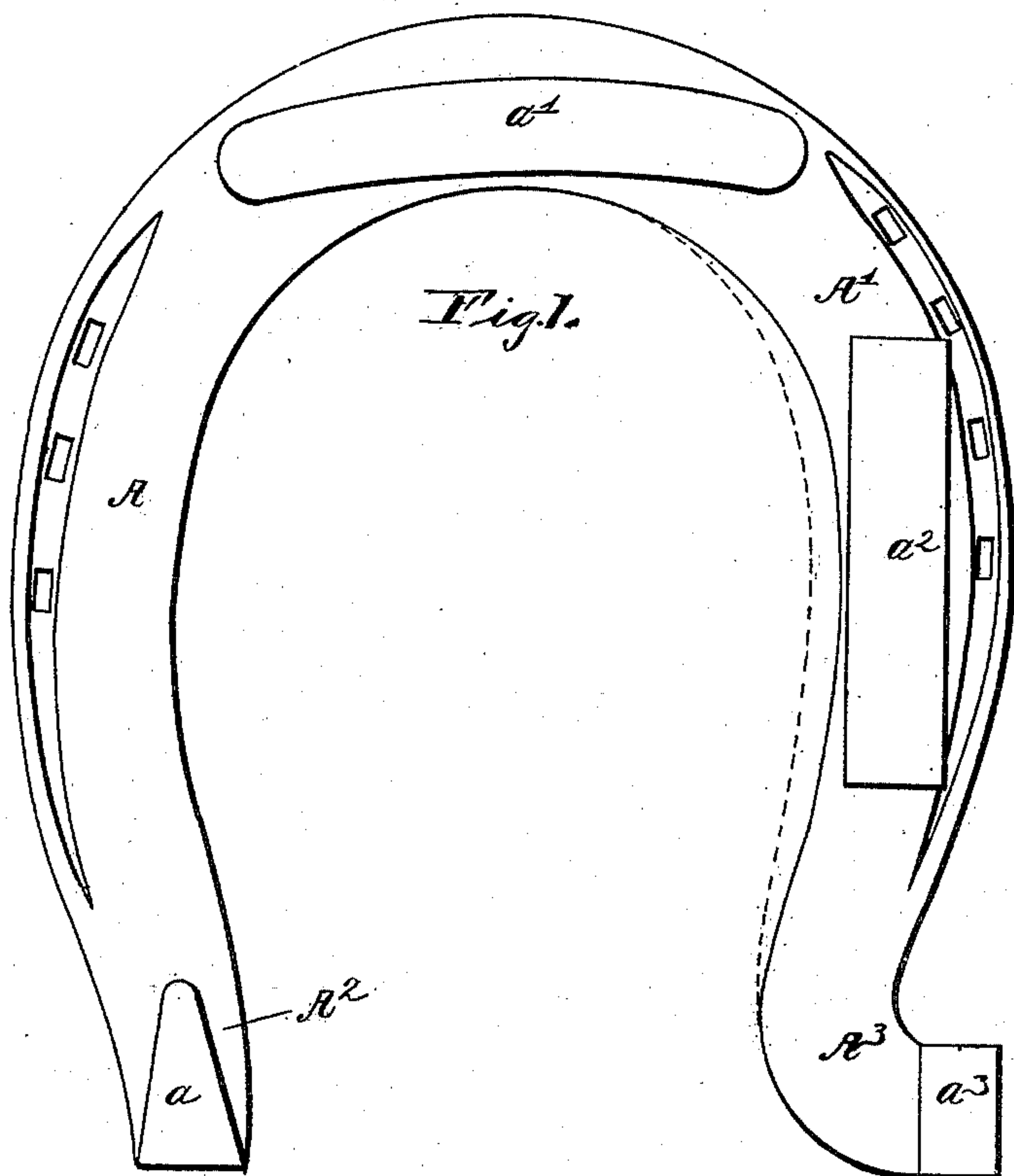


(No Model.)

N. LUNDWALL.
HORSESHOE.

No. 474,751.

Patented May 10, 1892.



Witnesses
William V. Fowler
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UNITED STATES PATENT OFFICE.

NELSON LUNDWALL, OF BROOKLYN, NEW YORK.

HORSESHOE.

SPECIFICATION forming part of Letters Patent No. 474,751, dated May 10, 1892.

Application filed February 11, 1890. Renewed October 3, 1891. Serial No. 407,602. (No model.)

To all whom it may concern:

Be it known that I, NELSON LUNDWALL, a subject of the King of Sweden and Norway, and a resident of Brooklyn, county of Kings, and State of New York, have invented a certain new and useful Improvement in Horse-shoes, of which the following is a specification.

My invention relates to devices employed for preventing interference action in a horse's movements and in particular to an improved horseshoe, and has for its object the provision of a device simple in construction, cheap in manufacture, and efficient in practical use.

To attain the desired end my invention consists in the construction and arrangement of parts hereinafter set forth.

In the drawings which form a part of this specification, Figure 1 represents a plan view of the under side of the shoe, and Fig. 2 is a side elevation of my improved shoe.

Like letters of reference, wherever they occur, indicate corresponding parts in both the figures.

Referring again to the drawings, A represents my shoe, the outer side of which A' is preferably wider than the other, as indicated by the dotted lines, and being ordinarily of an equal thickness throughout.

My shoe is provided with nail-holes of usual construction and ordinarily has an integral outwardly-flaring heel A³. My shoe is also provided with two preferably longitudinal heel-calks a a³, with a toe-calk a' and with a central outer quarter-calk a², the planes of the upper face of the shoe and the lower surfaces of the calks being parallel. The toe and central outer quarter-calks a' a² are comparatively large and the heel-calks a a³ are quite small. Thus the greatest weight and largest bearing-surface are placed where there is most wear without making the shoe unduly heavy.

From experience gained in the treatment of interfering horses I have found that an interfering horse shod with an ordinary shoe soon wears the outer toe thinner, and the bottom of the hoof not being level the inner part of the shoe will strike against the opposite leg. I have therefore regulated the size and located the positions of these four calks so that the wear on the same will be uniform, and there being no wear on the shoe elsewhere than at the four points a a' a² a³ it is mani-

fest that the two surfaces of the shoe will always be parallel and the horse's foot will be kept perfectly level until the calks are entirely worn away.

From the above description it will be seen that my improved shoes are adapted for universal use and are not confined to cases of interfering horses, as they correct any tendency to faulty action and keep, as stated, the horse's feet level at all times.

As it is evident that many slight changes in the construction and relative arrangement of parts might be resorted to without departing from the spirit and scope of my invention, I would have it understood that I do not restrict myself to the particular construction and arrangement of parts shown and described, but that I reserve the right to make such changes, and that

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

1. A horseshoe of even thickness throughout, provided with an integral outwardly-flaring heel and with two longitudinal heel-calks and with a toe-calk and also with a central outer quarter-calk, the planes of the upper face of the shoe and the lower surface of the calks being parallel, substantially as described.

2. A horseshoe of even thickness throughout, provided with two integral heel-calks and with an integral toe-calk and also with an integral central outer quarter-calk, the inner half of the shoe being thin and devoid of calks and the planes of the upper face of the shoe and the lower surface of the calks being parallel, substantially as described.

3. A horseshoe of even thickness throughout, provided with an integral outwardly-flaring heel and with a toe-calk and also with a central outer quarter-calk, the planes of the upper face of the shoe and the lower surface of the calks being parallel, substantially as described.

In testimony of the foregoing specification I do hereby sign the same, in the city of New York, county and State of New York, this 28th day of January, A. D. 1890.

NELSON LUNDWALL.

Witnesses:

WILLIAM V. FOWLER,
BENJAMIN L. STEVENS.