

(No Model.)

E. S. THURBER.

HORSESHOE AND CALK THEREFOR.

No. 274,851.

Patented Mar. 27, 1883.

Fig. 1.

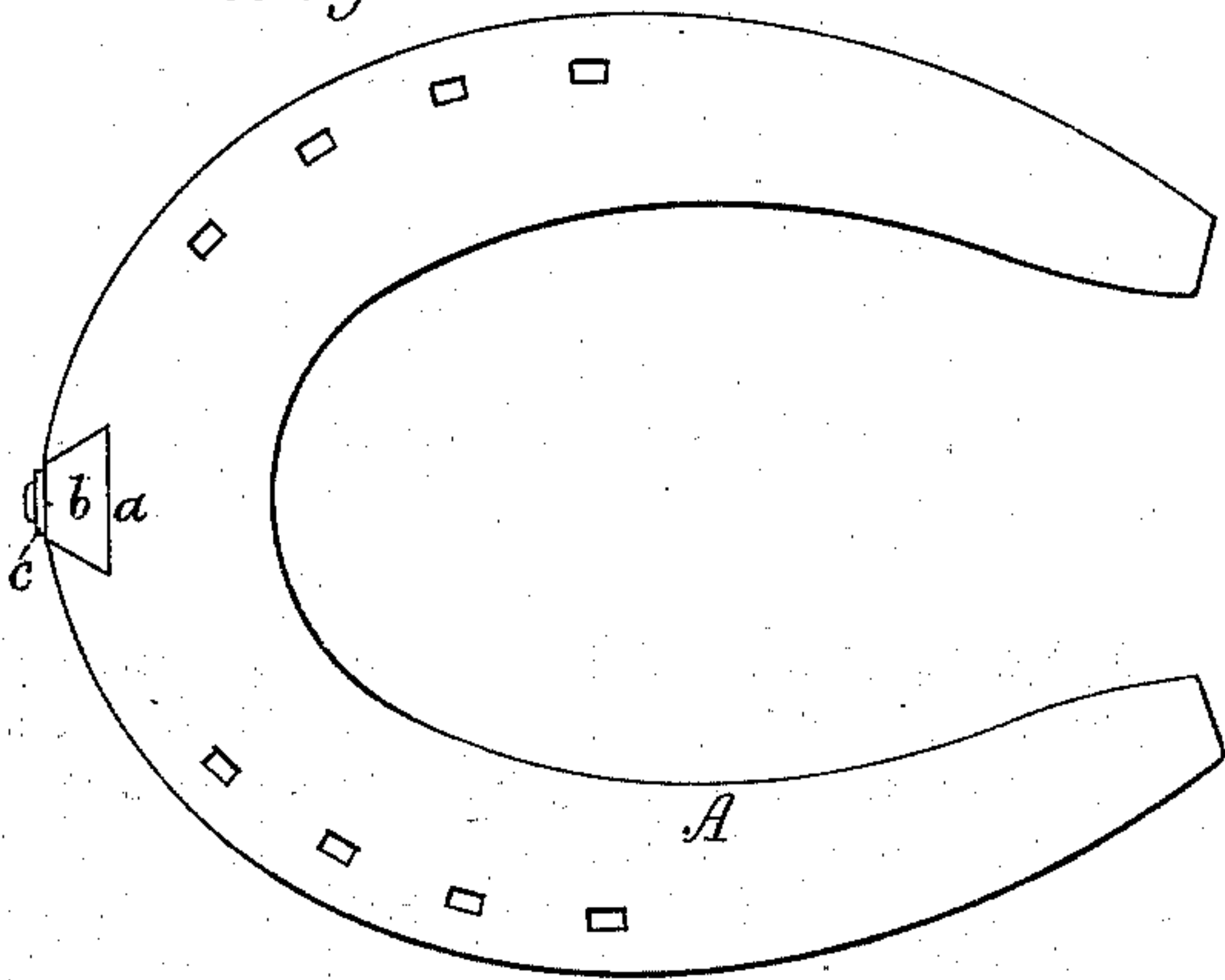


Fig. 2.

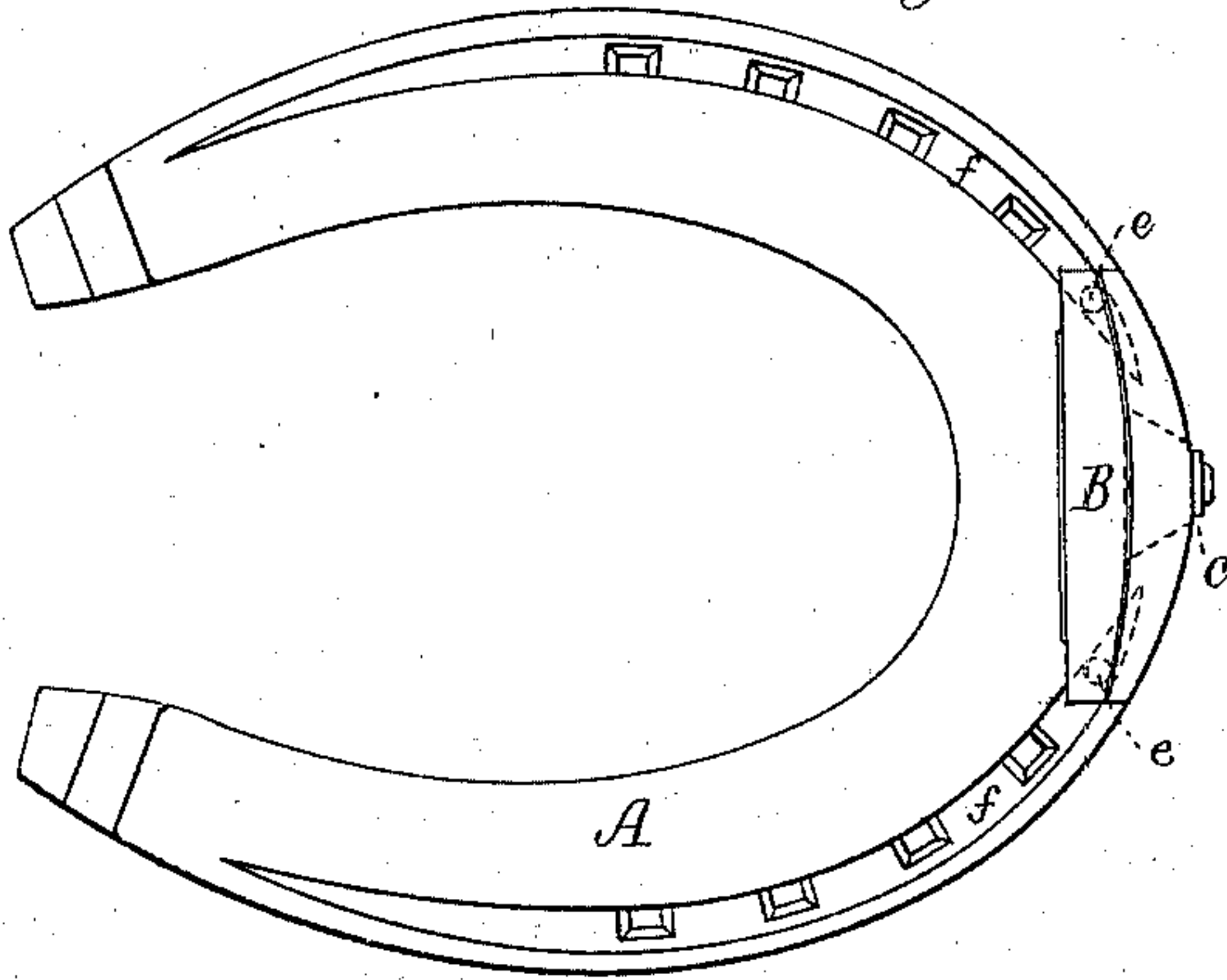


Fig. 3.

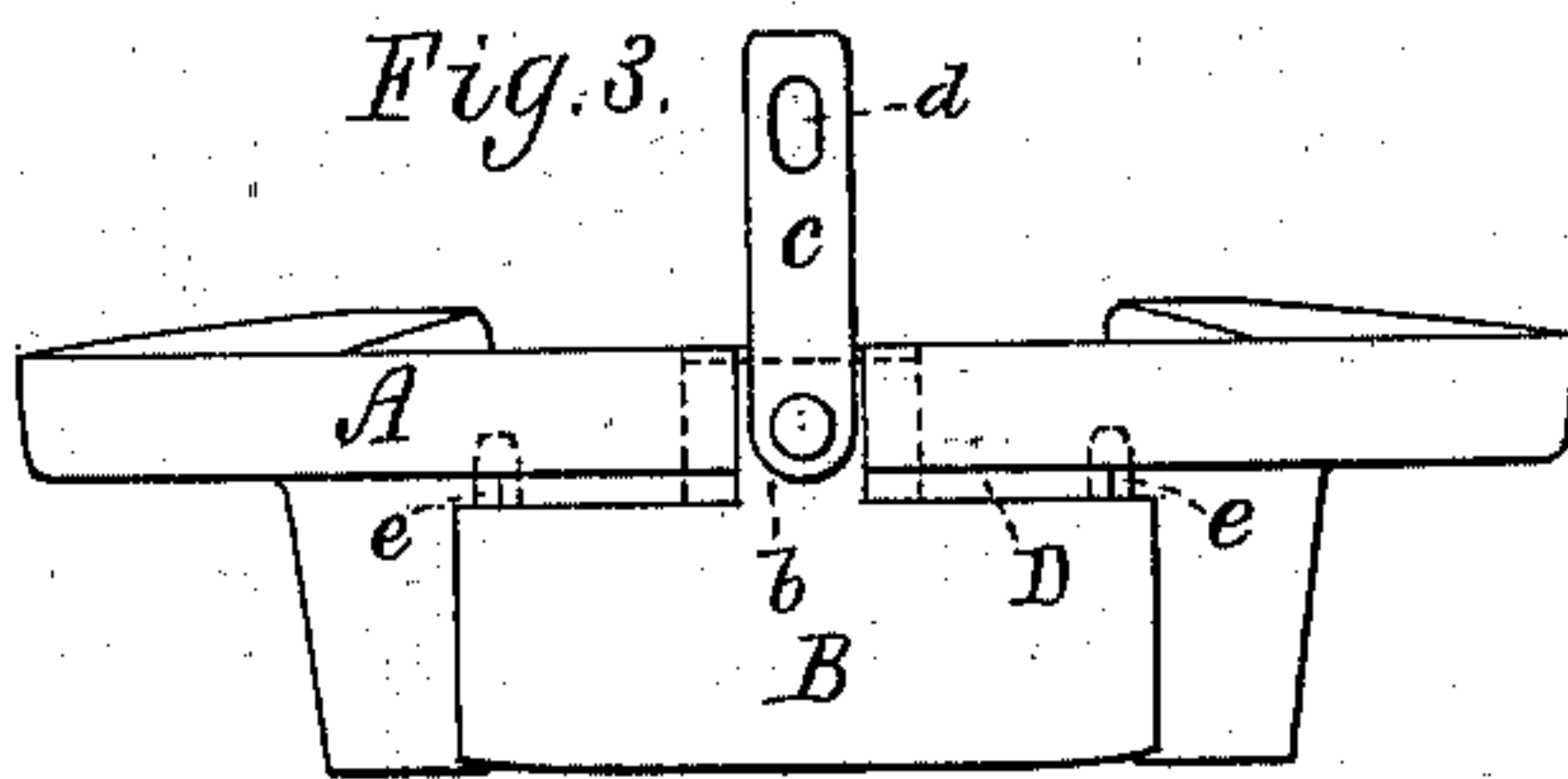


Fig. 4.

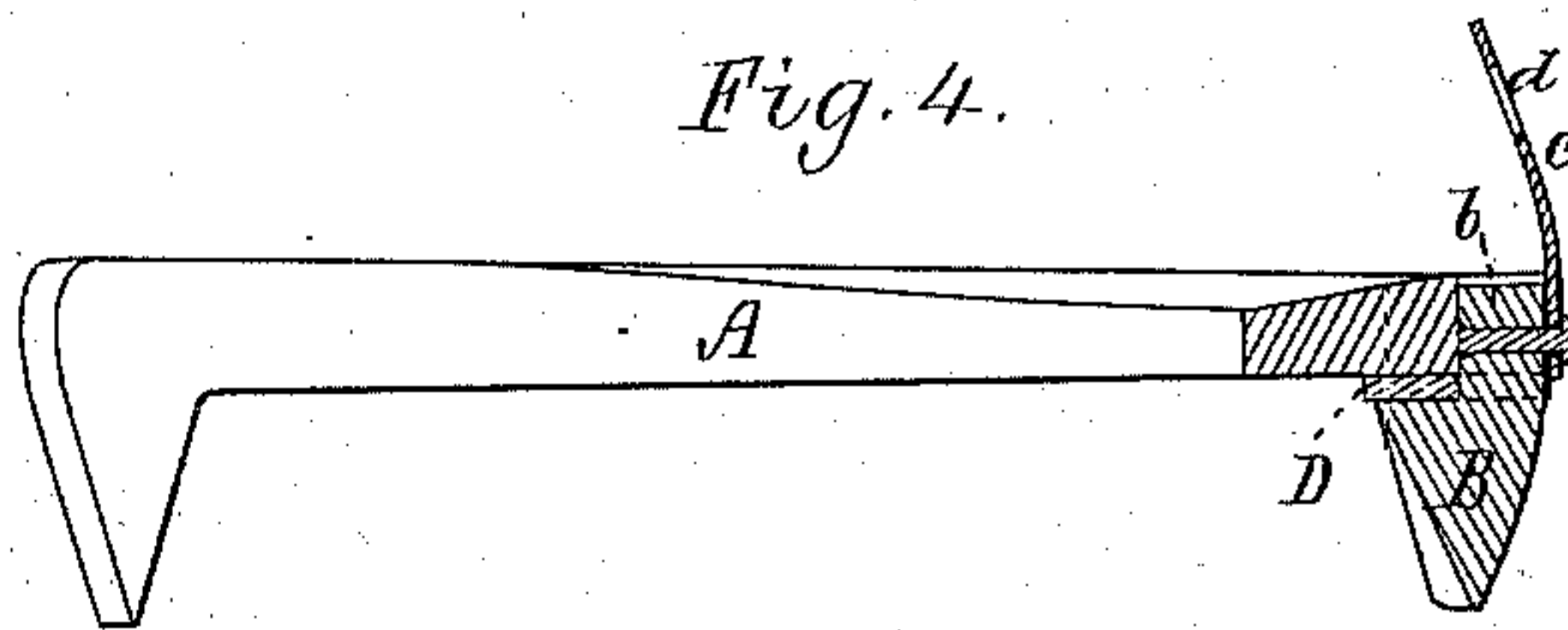


Fig. 5.

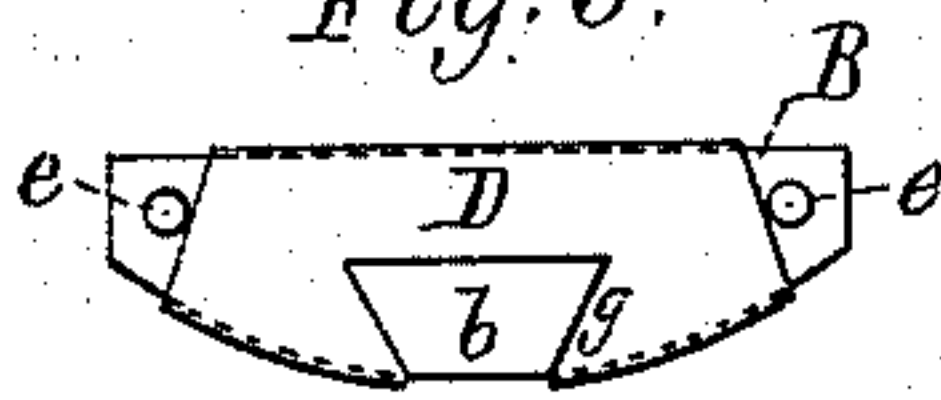


Fig. 9.

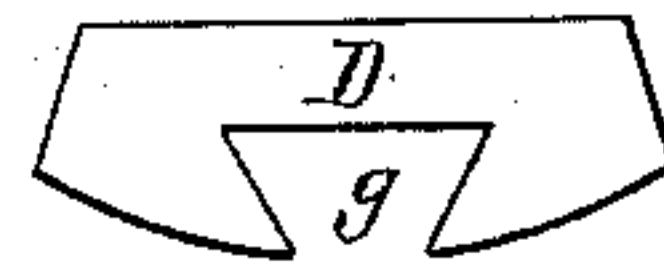


Fig. 6.

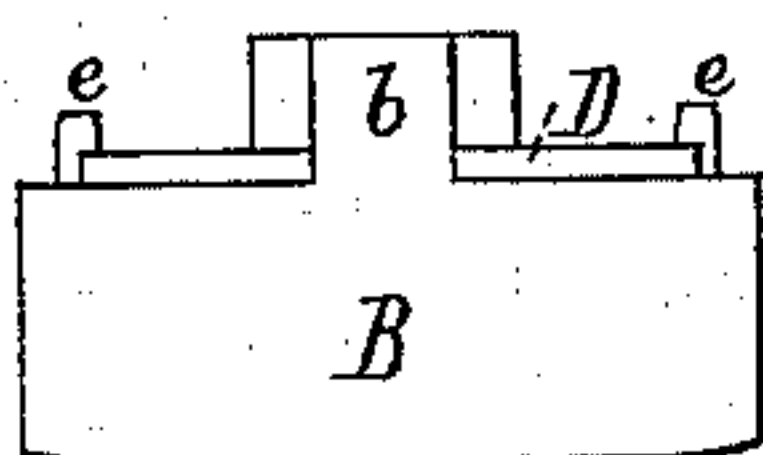


Fig. 7.

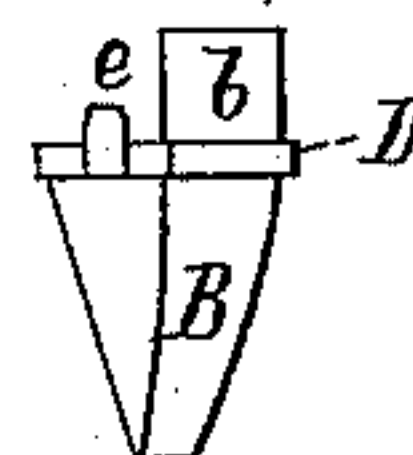
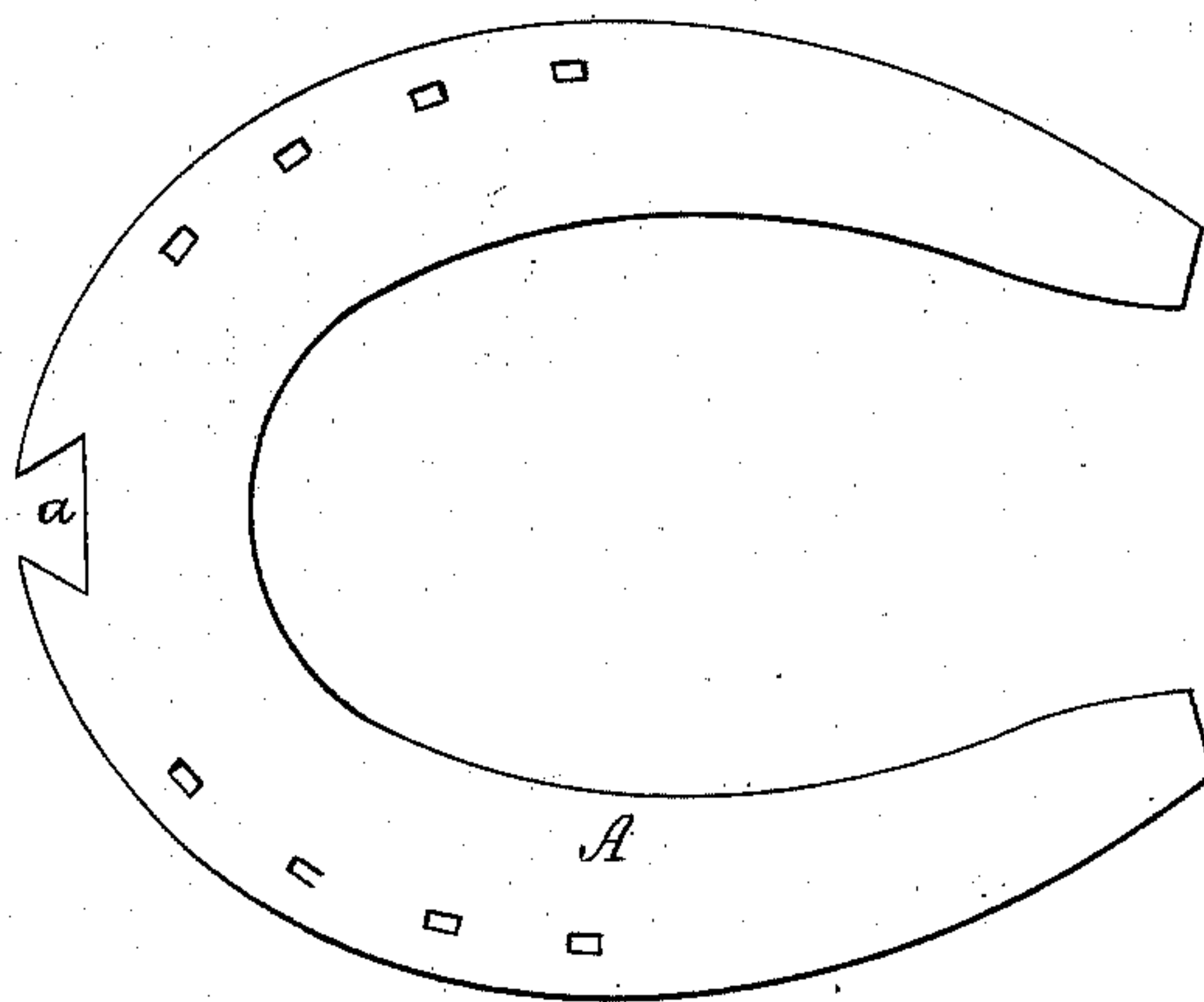


Fig. 8.



Witnesses.

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UNITED STATES PATENT OFFICE.

EDWIN S. THURBER, OF BOSTON, MASSACHUSETTS.

HORSESHOE AND CALK THEREFOR.

SPECIFICATION forming part of Letters Patent No. 274,851, dated March 27, 1883.

Application filed August 28, 1882. (No model.)

To all whom it may concern:

Be it known that I, EDWIN S. THURBER, of Boston, in the county of Suffolk, of the State of Massachusetts, have invented a new and
5 useful Improvement in Horseshoes and Calks Therefor; and I do hereby declare the same to be described in the following specification, and represented in the accompanying drawings, of which—

10 Figure 1 is a top view, Fig. 2 a bottom view, Fig. 3 a front elevation, and Fig. 4 a vertical section, of a horseshoe provided with my invention, the nature of which is defined in the claims hereinafter presented. Fig. 5 is a
15 top view, Fig. 6 a front elevation, and Fig. 7 an end view, of the movable calk and its elastic cushion. Fig. 8 is a top view of the shoe without the calk. Fig. 9 is a top view of the elastic cushion.

20 In carrying out my invention, I construct the shoe A with a dovetailed notch, *a*, arranged in it at its toe and extending through it in manner as represented in the drawings, and I make the separable calk (shown at B)
25 with a dovetailed tenon, *b*, to extend upward from it, and to correspond with in shape and fit closely to the notch; and I provide the calk with a fastening projection, *c*, to extend up from and above the tenon, such projection be-
30 ing provided with a vertical slot, *d*, to receive a screw to go through it (the said projection) and screw into the hoof of the horse, when the shoe may be fixed thereto. The calk is also
35 furnished with two studs, *e e*, to enter the nail-head grooves *f f* of the shoe and aid in supporting the calk or in preventing it from turning laterally relatively to the shoe. Further-
40 more, there is placed on the top of the calk an india-rubber or elastic cushion, D, which has in it a dovetailed notch, *g*, to receive and fit to the tenon, such notch and tenon serving to keep the cushion in its proper relation to the calk and shoe.

From the above it will be seen that the calk, by means of the cushion, has an elastic bear- 45 ing upon the shoe, and can be readily applied to or removed therefrom, as occasion may require, so that after a calk may have become worn by use it can easily be withdrawn from the shoe and hoof and a fresh or unworn one 50 can be substituted, or the worn calk, after having been sharpened or repaired, may be returned to place on the shoe without the necessity of removing the shoe from the hoof of the horse. The rubber cushion allows the calk to 55 yield a little when such calk may strike the ground, the dovetailed notch in the cushion serving, with the dovetailed tenon, to hold the cushion in place. The screw can easily be screwed into the solid part of the toe of the 60 hoof without injury thereto.

I am aware that it is not new to have a horse-shoe provided with one or more separable calks. Therefore I do not claim such in the abstract. 65

What I claim as my invention is—

1. The shoe provided with the nail-head-receiving grooves and the dovetailed notch arranged in it, as set forth, in combination with the calk having studs to enter the said grooves, 70 a tenon to enter the notch, and a fastening projection, as described, to secure the calk to the hoof of a horse.

2. The shoe provided with nail-head-receiving grooves and a dovetailed notch arranged 75 in it, as set forth, in combination with a calk, (furnished with studs, a slotted fastening projection, and a dovetailed tenon arranged with it, as explained,) and also with an elastic cushion, notched, as shown, to receive the tenon, 80 and arranged between the calk and the shoe, all being substantially as represented.

EDWIN S. THURBER.

Witnesses:

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