

No. 820,108.

PATENTED MAY 8, 1906.

B. P. GRAY.
HOOF PAD FOR HORSESHOES.
APPLICATION FILED DEC. 28, 1905.

2 SHEETS—SHEET 1.

Fig. 1.

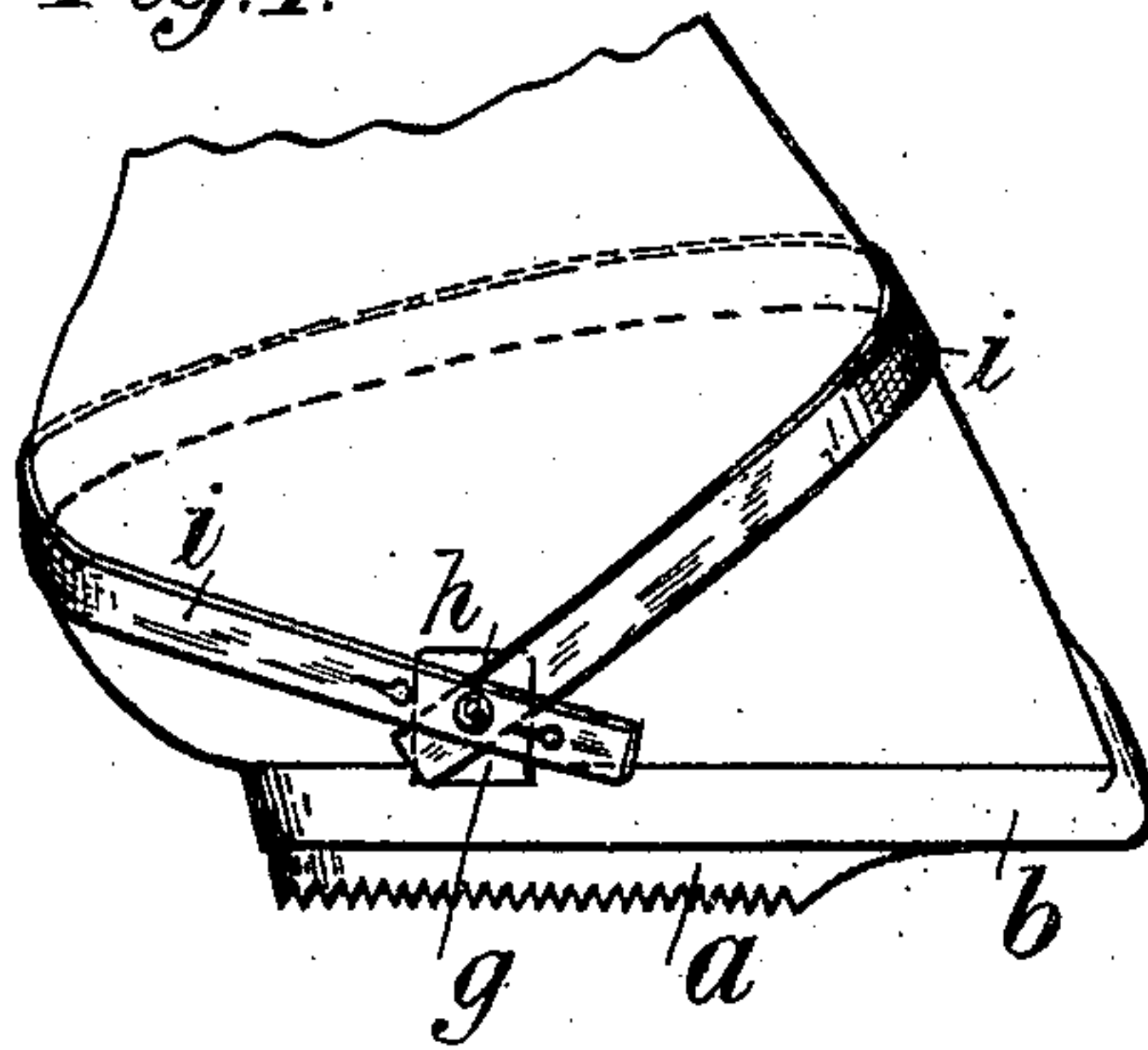


Fig. 2.

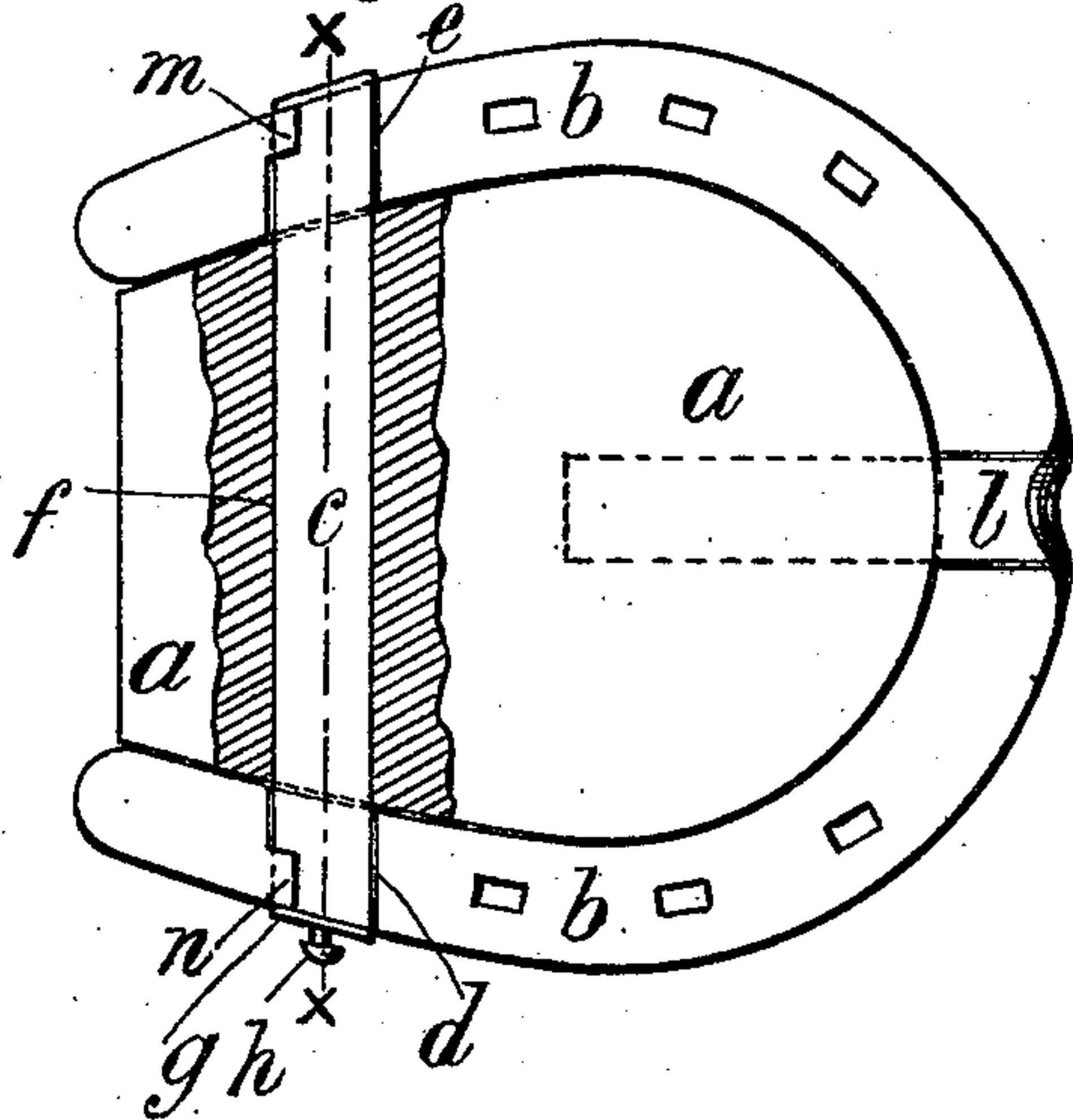


Fig. 3.

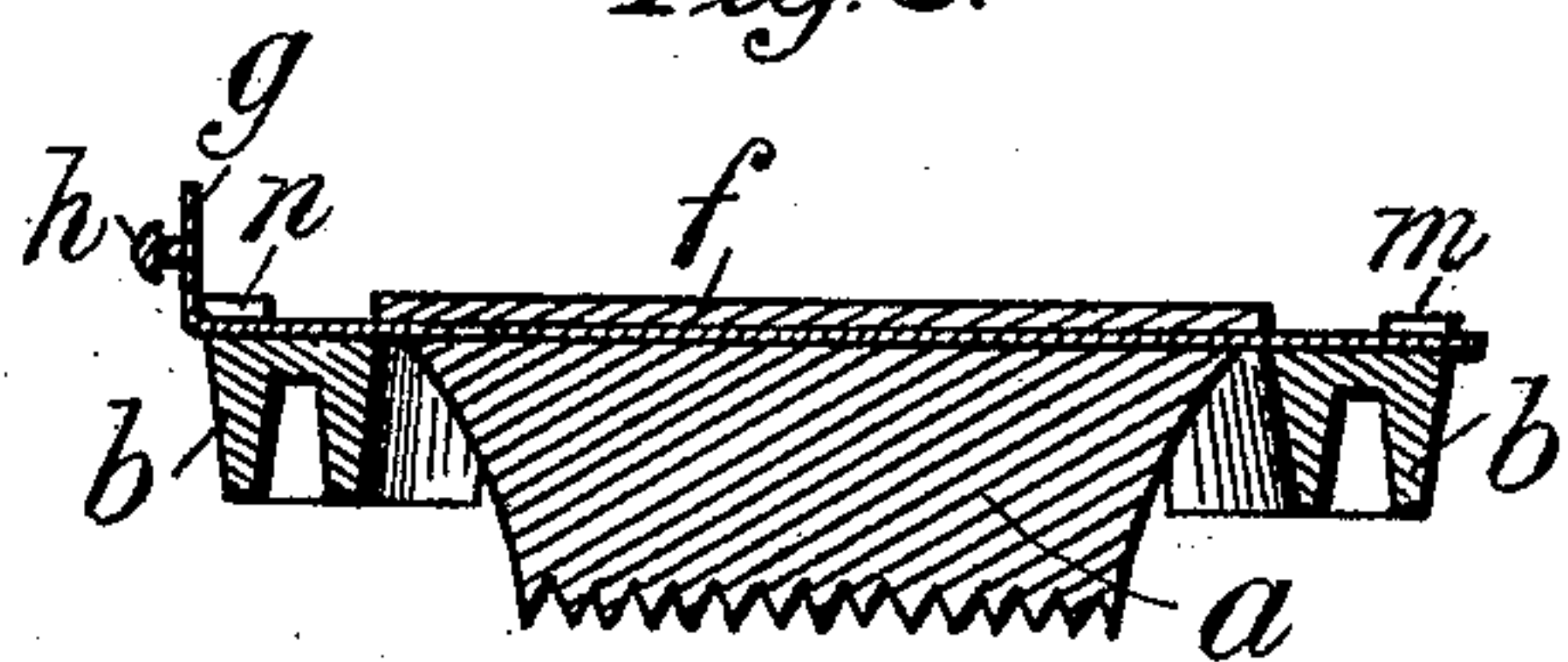


Fig. 3*.

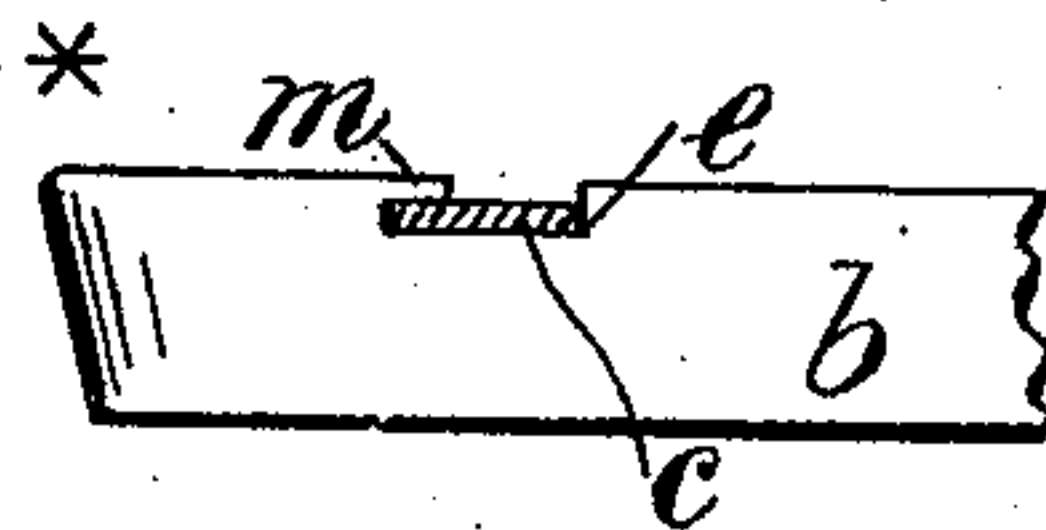


Fig. 3**.

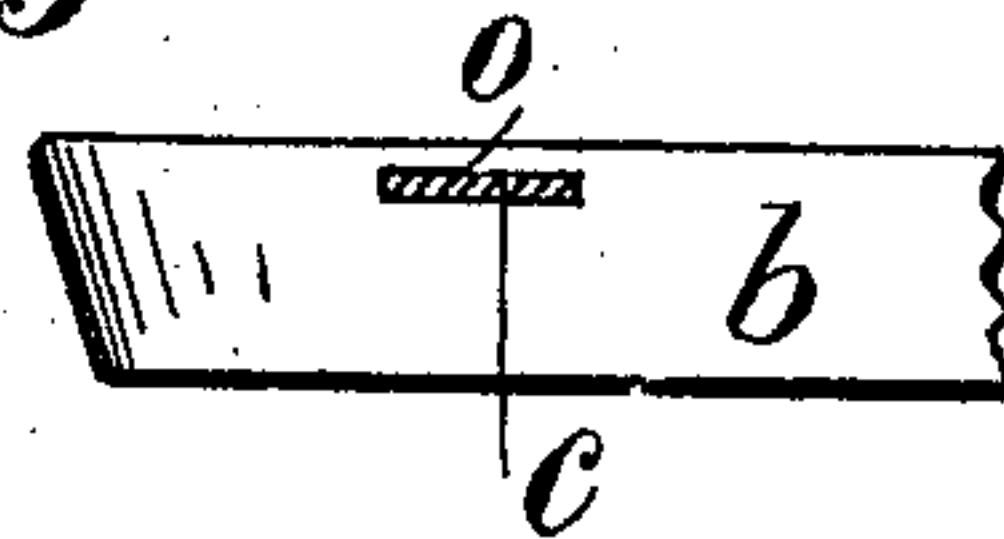
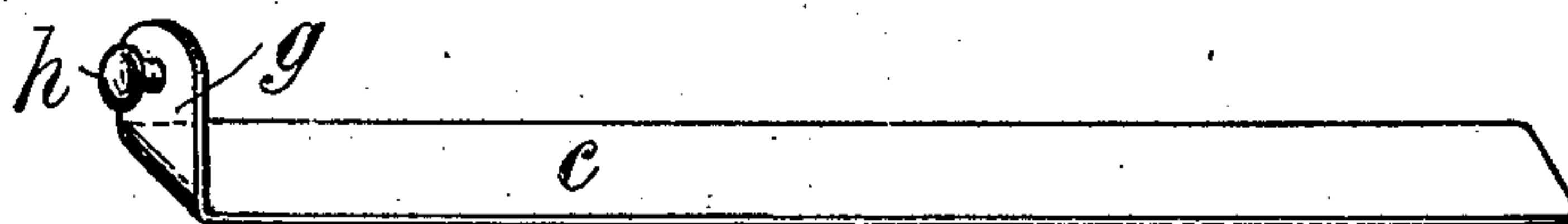


Fig. 4.



Witnesses

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John A. Perennial.

Inventor.

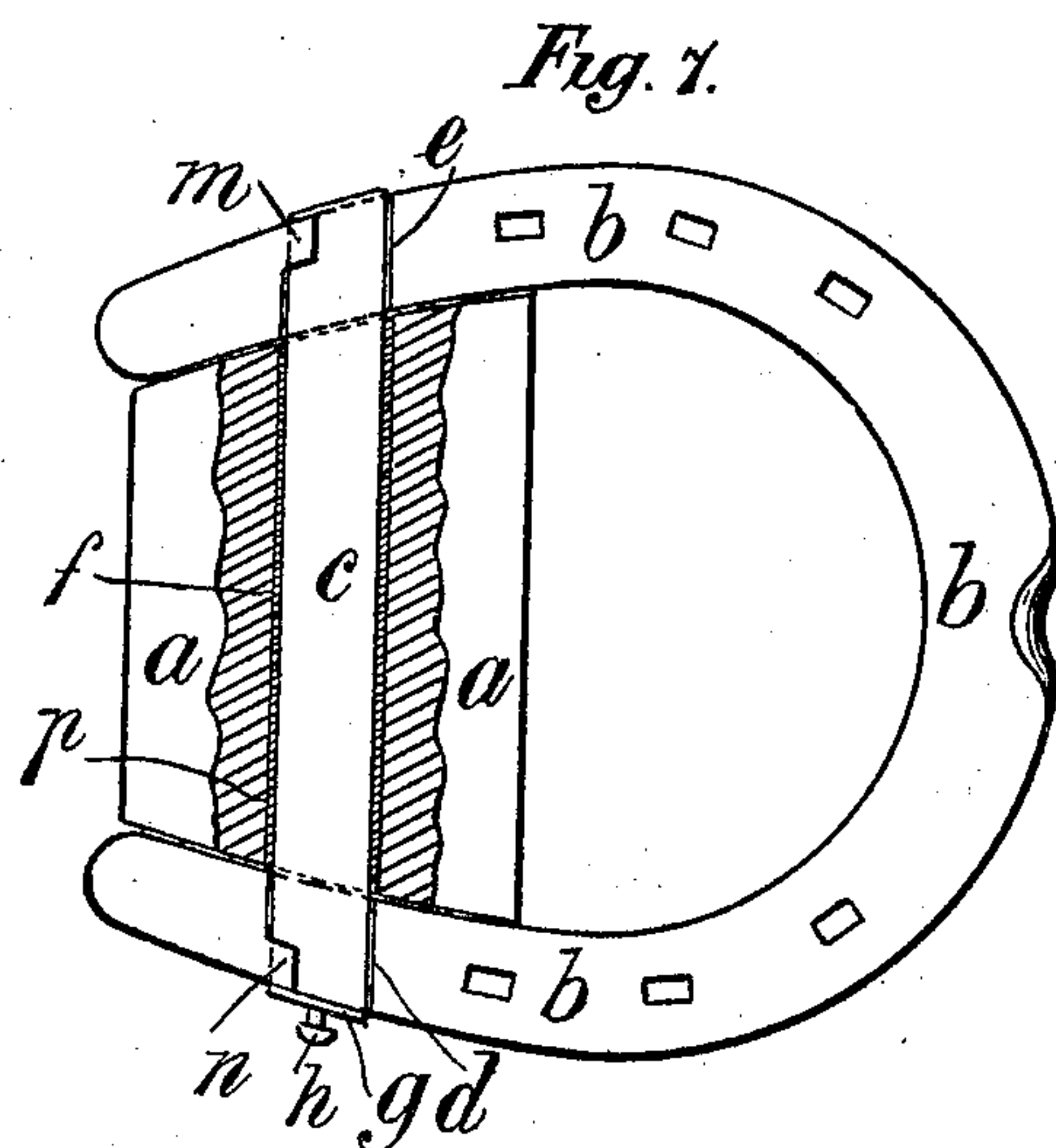
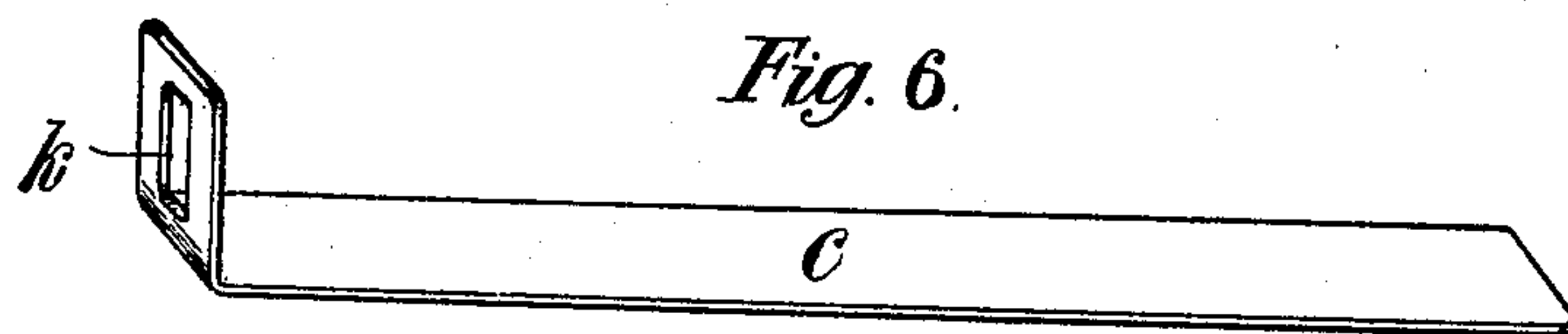
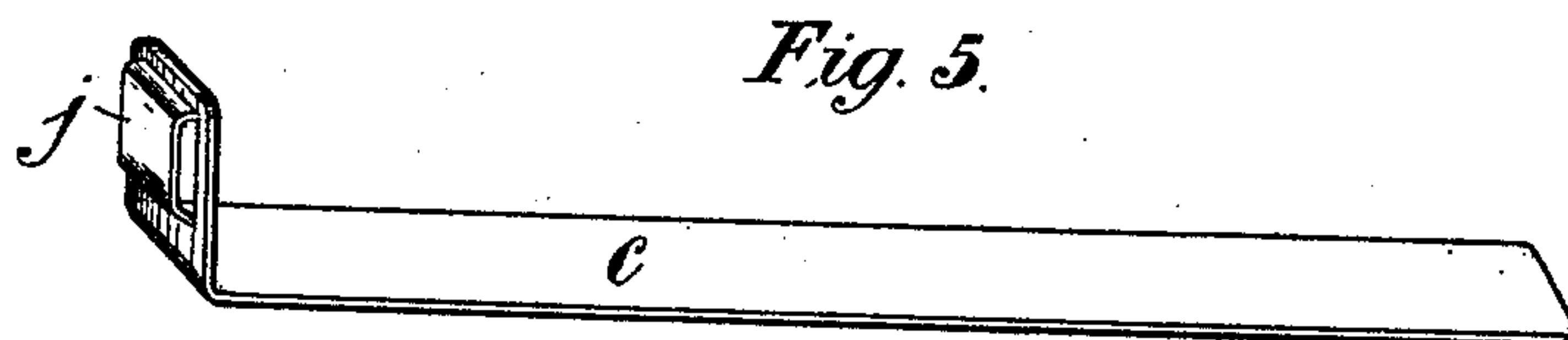
Bertram Parrott Gray
BY *Richard H. Gray*
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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

BERTRAM PARROTT GRAY, OF BIRMINGHAM, ENGLAND.

HOOF-PAD FOR HORSESHOES.

No. 820,108.

Specification of Letters Patent.

Patented May 8, 1906.

Application filed December 28, 1905. Serial No. 293,673.

To all whom it may concern:

Be it known that I, BERTRAM PARROTT GRAY, solicitor, a subject of His Majesty the King of Great Britain and Ireland, residing at 122 Colmore Row, in the city of Birmingham, England, have invented new and useful Improvements in and Connected with Hoof-Pads for Horseshoes, of which the following is a specification.

10 This invention has reference to hoof-pads for horseshoes; and it consists in constructing the said pads and securing them to the shoe in the manner herein described, whereby the said pad can be very quickly fixed to
15 or removed from the shoe without removing the shoe from the hoof.

In carrying out this invention I construct the hoof-pad of india-rubber or other suitable substance or substances molded or otherwise made to a suitable shape, so that it fits against the hoof within the shoe and is secured in this position by the means which I will describe by referring to the accompanying drawings, on which—

25 Figure 1 is a side elevation of a horse's hoof and shoe with the hoof-pad fixed thereto in accordance with this invention. Fig. 2 is a plan of the shoe and pad and the means for securing them together, said pad being shown
30 partly in section. Fig. 3 is a cross-sectional elevation of the same on line X X of Fig. 2. Fig. 3* is a side elevation of one of the heel ends of the shoe. Fig. 3** is also a side elevation of one of the heel ends of the shoe to
35 illustrate a modified form of hole for the cross-bar. Fig. 4 is a view of the detachable cross strip or bar by which the hoof-pad is secured to the shoe. Fig. 5 shows a modified form of the said cross strip or bar. Fig.
40 6 shows a further modification of the same; and Fig. 7 is a plan of a horseshoe with a modified form of hoof-pad, partly in section, secured thereto in accordance with this invention.

45 The same reference-letters indicate the same or corresponding parts in all the figures.

a is the india-rubber hoof-pad made to fit inside the shoe *b*, so as to be attached thereto or removed therefrom after the shoe has been
50 nailed onto the horse's hoof.

In order to secure the hoof to the shoe, I provide a thin flat section metal cross strip or bar *c*, which passes transversely through

holes or recesses *d e* in the heel part of the shoe and also through a transverse hole *f* in
55 the pad *a*, so that when the cross strip or bar is secured in position in the shoe, as shown in Figs. 1, 2, and 3, the pad is perfectly secure, but can readily be removed from the shoe by
60 first withdrawing the cross strip or bar from the shoe and pad.

In order to secure the cross strip or bar *c* in the pad *a*, as in Figs. 1, 2, and 3, the cross strip or bar *c* is made with an upwardly-turned end *g*, shaped or formed so that a
65 strap can readily be fixed thereto to pass round the horse's hoof. For this purpose the head of the cross strip or bar *c* is, by preference, made with a projecting stud *h*, with which the end of the strap *i* is engaged, and
70 this strap is passed round the horse's hoof, as in Fig. 1, and when the other end of the strap *i* is connected onto the stud *h* the cross bar or strip *c* is effectually prevented from moving
75 endwise out of place. Instead of the head *g* of the cross bar or strip *c* being made with a stud *h*, as in Figs. 1, 2, 3, and 4, the said head *g* may, if desired, be made with a projecting
80 loop *j*, as in Fig. 5, for the strap to pass through or be made with a hole *k*, as in Fig. 6, through which the strap *i* can be threaded. The ends of the strap in this case can conveniently be connected together by an ordinary buckle. It will be evident that instead
85 of the strap a piece of string or cord, boot-lace, wire, or the like may be passed round the horse's hoof in a similar manner and engaged with the head *g* of the cross bar or strip *c* to secure it in position. When the
90 cross bar or strip *c* is secured by the strap *i* or the like, as above described, the upwardly-projecting end *g* of the cross bar or strip *c* has to be on the outside of the horse's hoof, and the cross bar or strip *c* is made of such a
95 length that its fore end does not project or projects but very slightly beyond the side of the shoe *b*. The part of the pad through which the cross bar or strip *c* passes may have embedded in it a metal or canvas insertion or other strengthening-sheath *p*, Fig. 7,
100 forming the hole for the cross-bar.

The india-rubber or like pad *a* with which the cross-bar *c* is used can be of any convenient shape, as it may, for instance, be shaped as in Figs. 1 and 2, to cover the whole of the
105 hoof inside the shoe, and in this case the fore

part of the pad will be held in position by a metal tongue *l*, which is embedded in the substance of the pad and projects at the front of the same and fits into a recess in the fore part of the shoe, or the said pad may be made as in Fig. 7, so as to cover only the heel part of the hoof.

The transverse slots or holes *d e* in the shoe through which the cross strip or bar *c* passes to secure the pad *a*, as above described, may either be made as open-topped slots or recesses in the upper surface of the shoe, as shown in Figs. 2, 3, 3*, and 7, with or without the overhanging projections *m n*, as in Fig. 2, under which the cross bar or strip *c* is situated and which prevent the cross bar or strip *c* from working out of the heel part of the shoe, or they may be complete transverse holes *o* (see Fig. 3**) at a short distance below the upper surface of the shoe, these holes being made of the proper elongated shape to suit the cross-bar.

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

In combination, a horseshoe, a detachable hoof-pad adapted to be fitted within the shoe after the latter has been nailed to the hoof, one or more metal cross strips or bars adapted to be inserted endwise in side slots in the shoe and pad or to be removed endwise therefrom, the said metal cross strip or bar having at one end a head so formed as to enable a strap, cord or the like passing round the hoof to be attached thereto to secure the cross strip or bar in position, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

BERTRAM PARROTT GRAY.

Witnesses:

CHARLES BOSWORTH KETLEY,
THOMAS JOHN ROWE.