

(No Model.)

S. PRUDEN.
NAILLESS HORSESHOE.

No. 500,946.

Patented July 4, 1893.

Fig. 1.

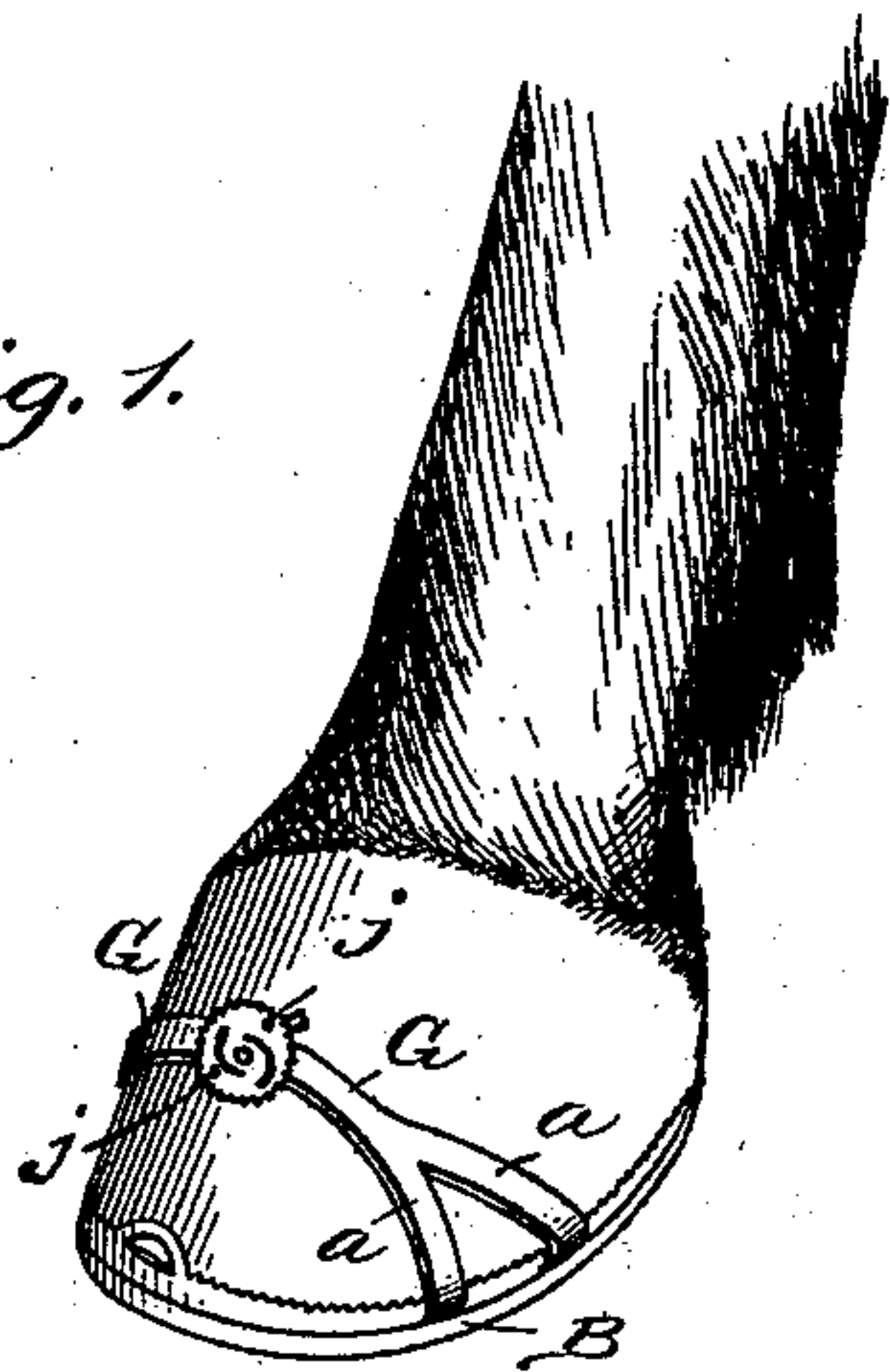


Fig. 3.

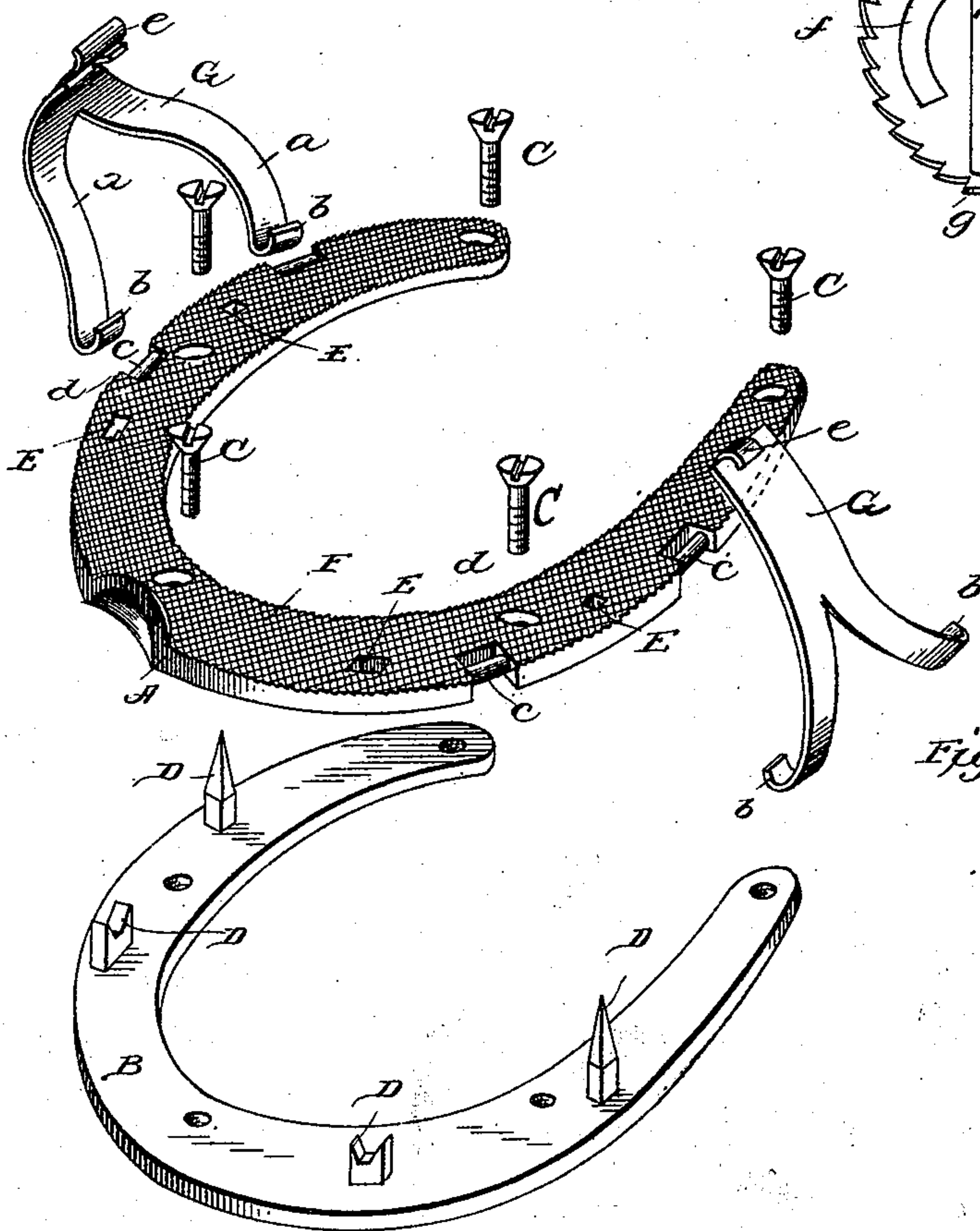
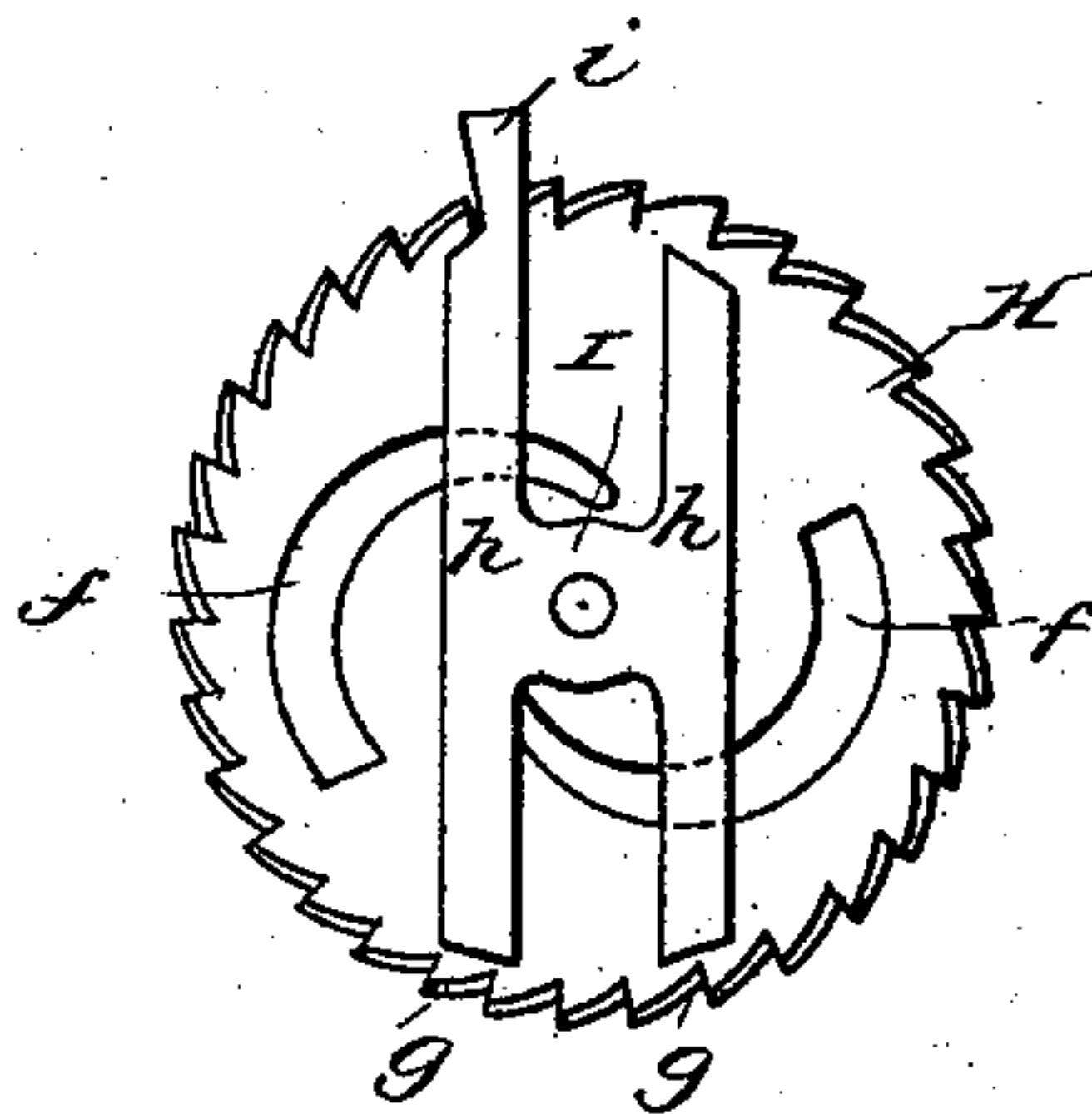


Fig. 2.

witnesses:
Harry D. Brown.
R. M. Allen.

Inventor:
Silas Pruden.
By W. W. Stetson
Att'y

UNITED STATES PATENT OFFICE.

SILAS PRUDEN, OF LOS ANGELES, CALIFORNIA, ASSIGNOR OF ONE-HALF TO
GEORGE SINSABAUGH, OF SAME PLACE.

NAILLESS HORSESHOE.

SPECIFICATION forming part of Letters Patent No. 500,946, dated July 4, 1893.

Application filed October 17, 1891. Serial No. 409,067. (No model.)

To all whom it may concern:

Be it known that I, SILAS PRUDEN, a citizen of the United States, and a resident of Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Nailless Horseshoes; and I do hereby declare the following to be a full, clear, and exact description of said invention, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in horse-shoes known as nailless shoes, and more especially to the manner and means of attaching a shoe of this character to the hoof.

The object had in view is to provide means for readily attaching and detaching the shoe, and at the same time securing efficiency and durability in such means.

The invention consists in connecting two straps, preferably of metal, on each side of the shoe, which straps are designed to embrace the hoof and be securely drawn together and held by a clasp, having eccentrically arranged slots into which the hooked ends of the straps extend, the said slots operating to tighten the straps when the clasp is turned.

The invention also consists in providing a catch lever pivotally secured to the center of the clasp on its under side and designed to hold the clasp in its tightened position by engaging a circular rack, formed on the under surface of the clasp.

The invention further consists in certain other novel features in the arrangement and construction of parts, all as hereinafter set forth.

Referring to the accompanying drawings: Figure 1 represents the shoe as applied to the horse's hoof. Fig. 2 represents the form of shoe on which I prefer to use my invention, the shoe and its fastenings being shown in detached views. Fig. 3 represents a view of the under side of the clasp showing the means for holding the same in a tightened position.

In the use of a shoe of this character, experience has found it necessary, in view of the expense of the construction providing for the ready attachment and removal of the shoe, to

construct the shoe proper, of two plates, an upper permanent plate A, provided with the attaching device, and a lower wearing plate B, which is attached to the upper plate by means of screws C, or otherwise. By this provision the wearing out of the shoe is confined to the plate B, which can be readily replaced at any time at a trifling expense.

The plate B is provided with prods or spurs D, securely fastened thereto which extend through the openings E, in the plate A, projecting slightly above the same. These prods D, together with the serrated or roughened surface F, of the upper plate, give rigidity to the shoe when on the hoof and prevent the lateral displacement of the same.

The straps G, forming the main securing device are preferably constructed of metal and made in bifurcated form at their lower portions, making practically two straps *a* connected together. The bifurcated straps G at their lower ends are made into hooks *b* which are firmly secured around the pintles *c* in the recesses *d* formed in the plate A. The upper ends of the straps G, are provided with hooks *e* which hook to the clasp H, in the eccentrically arranged slots *f*. The clasp is preferably circular in form, and the slots *f* being semicircular are so formed in the clasp or plate H, that one end will be near the periphery, while the other end is located in close proximity to the center. The action of the circular slots so arranged, both being diametrically opposite each other, is to force or pull the straps G, toward the center of the clasp, thereby tightening the straps and securing the shoe firmly to the hoof.

Having provided the means for binding the shoe on firmly, it is further necessary to devise means for holding the clasp in its tightened position; this I effectually accomplish by providing a ratchet rim *g* on its under side which is engaged by the bar I, pivotally secured at its central portion to the under side of the plate or clasp, at its center. This bar I, extends across the slots *f*, and holds the hooks *e* from sliding in the slots away from the center of the clasp. The bar I, is preferably formed in the shape of the letter "H," and has one of the side bars *h* longer than the other, and sufficient to extend slightly beyond

the periphery of the clasp to form a catch *i*, which is held in its normal position by the ratchet rim *g*, but which can be readily released therefrom by depressing the same with
5 the hand, when it is desired to remove the shoe.

In order to adjust the shoe securely to the hoof, a suitable tool for turning the clasp *H* will have to be employed.

10 A convenient provision for the turning of the clasp is the holes *j* which are formed in the plate diametrically opposite each other, and which are designed to hold a lever rigidly on the clasp, having projections to enter the said
15 openings.

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

20 1. The combination with a main and a supplemental shoe, of straps having a pivotal connection with the latter shoe, and having their

upper ends provided with hooks, a clasp having eccentric slots in which the said hooks work, and a bar carried by the clasp for locking the hooks within said slots, substantially
25 as described.

2. The combination with a main and a supplemental shoe, of straps having a pivotal connection at their lower ends with the latter shoe, and having their upper ends provided
30 with hooks, a clasp plate having eccentric slots in which said hooks work, a catch bar pivotally secured to the clasp-plate, and engaging teeth formed on said plate, substantially as described and for the purpose set
35 forth.

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

SILAS PRUDEN.

Witnesses:

W. S. JAMES,
N. J. CLARKE.