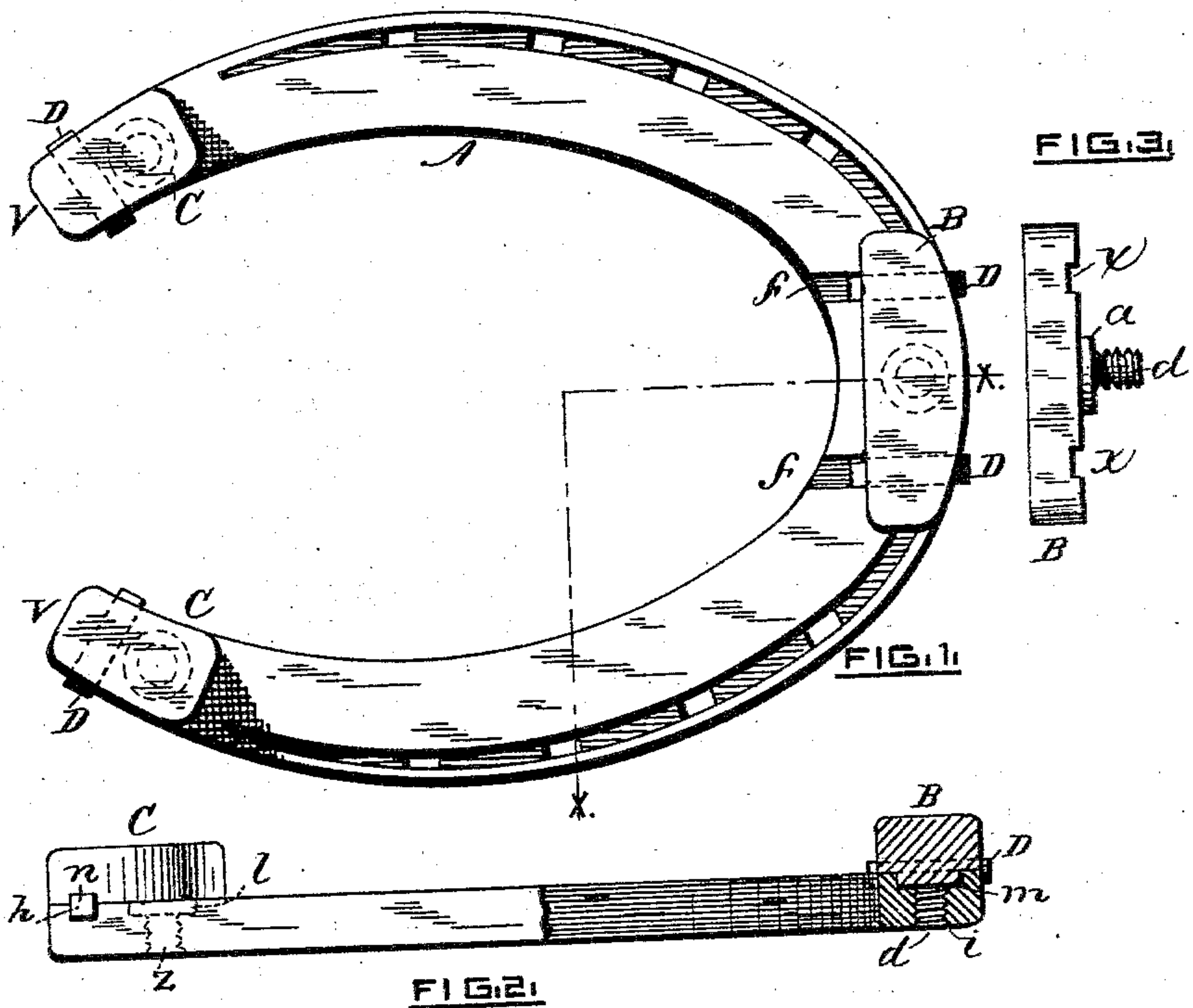


(No Model.)

J. W. WHITE & J. C. FARMER.  
HORSESHOE.

No. 280,889.

Patented July 10, 1883.



WITNESSES.

*L. J. White.*  
*H. C. Plummer.*

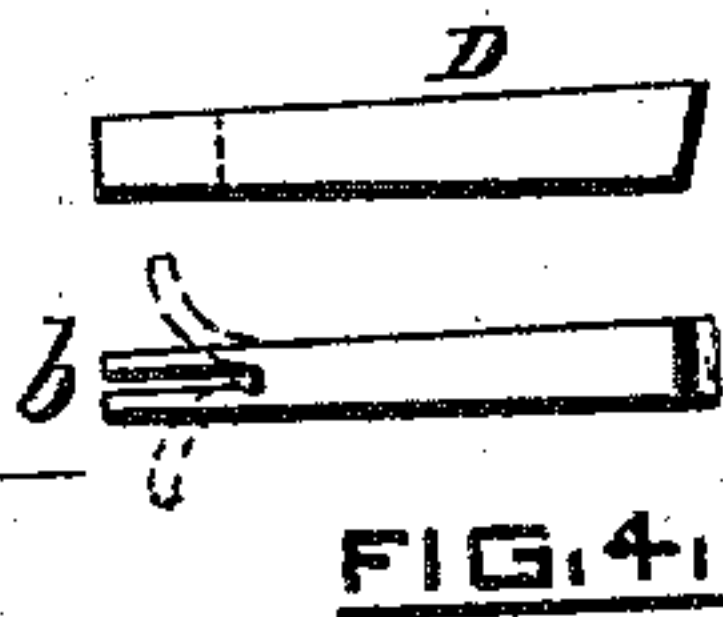


FIG. 4.

INVENTOR.

*John W. White,*  
*James C. Farmer,*  
*per C. Ashaw.*



# UNITED STATES PATENT OFFICE.

JOHN W. WHITE, OF DEDHAM, MASSACHUSETTS, AND JAMES C. FARMER,  
OF PROVIDENCE, RHODE ISLAND.

## HORSESHOE.

SPECIFICATION forming part of Letters Patent No. 280,889, dated July 10, 1883.

Application filed May 14, 1883. (No model.)

*To all whom it may concern:*

Be it known that we, JOHN W. WHITE, of Dedham, in the county of Norfolk, State of Massachusetts, and JAMES C. FARMER, of Providence, in the county of Providence, State of Rhode Island, have invented a certain new and useful Improvement in Horseshoes, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a plan view; Fig. 2, a side elevation, a part of the shoe being shown in vertical section taken on the line *x x*; Fig. 3, a view of the toe-calk detached, and Fig. 4 a view of the keys.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

Our invention relates to that class of horseshoes which are provided with detachable calks; and it consists in a novel construction and arrangement of the parts, as hereinafter more fully set forth and claimed, by which a more effective device of this character is produced than is now in ordinary use.

The nature and operation of the improvement will be readily understood by all conversant with such matters from the following explanation, its extreme simplicity rendering an elaborate description unnecessary.

In the drawings, A represents the body of the shoe, B the toe-calk, and C the heel-calks. The toe-calk is provided with a centrally-arranged upwardly-projecting stud, *a*, and screw *d*. The toe of the shoe, on its under side, is provided with a socket, *m*, for receiving the stud *a*, and with a threaded hole, *i*, for receiving the screw *d*. A transverse slot, *x*, is formed in the upper side of the calk B, on either side of the stud *a*, corresponding slots, *f*, being formed in the under side of the shoe. Each of the heel-calks C is provided on its upper side with a stud, *l*, and screw *z*, which are respectively fitted to work in corresponding sockets and screw-holes in the body of the shoe, the studs being attached near the forward ends of the calks, and the calks elon-

gated rearward, as shown at *v*, the elongated portions being provided with transverse slots *n* and the body of the shoe with corresponding slots, *h*. The slots *x f* and *n h* are preferably made slightly tapering, being largest at their outer ends, and are provided with corresponding keys, D.

In the use of our improvement the toe-calk B is attached to the shoe by turning the screw *d* into the threaded hole *i* until the stud *a* has fully entered its socket *m*, and the slots *x* are brought immediately under or caused to register with the slots *f*, in which position it is secured by means of the keys D, driven into the slots from the front. The heel-calks are attached to the shoe in substantially the same manner, as will be readily understood without a more explicit description.

The stud *a* in the socket *m* is designed to relieve the screw *d* of the lateral strain that would otherwise be exerted upon it, the same function being performed by the stud *l* in respect to the screw *z*; but the studs may be omitted, if preferred. One each of the slots *x f* and one of the keys D may also be dispensed with in securing the toe-calk; but two are preferable.

The keys D may be split, as shown at *b*, and their points bent outwardly after being inserted in the slots, to secure them more firmly in position, if desired.

Having thus explained our invention, what we claim is—

1. A horseshoe having the calk B, provided with the screw *d* and slots *x*, in combination with the body A, provided with the slots *f*, screw-hole *i*, and keys D, constructed, combined, and arranged to operate substantially as set forth.

2. A horseshoe having the calk C, provided with the elongated portion *v*, slot *n*, and screw *z*, in combination with the body A, provided with the slot *h*, and key D, constructed, combined, and arranged to operate substantially as specified.

JOHN W. WHITE.  
JAMES C. FARMER.

Witnesses:

C. A. SHAW,  
L. J. WHITE.