

No. 672,365.

Patented Apr. 16, 1901.

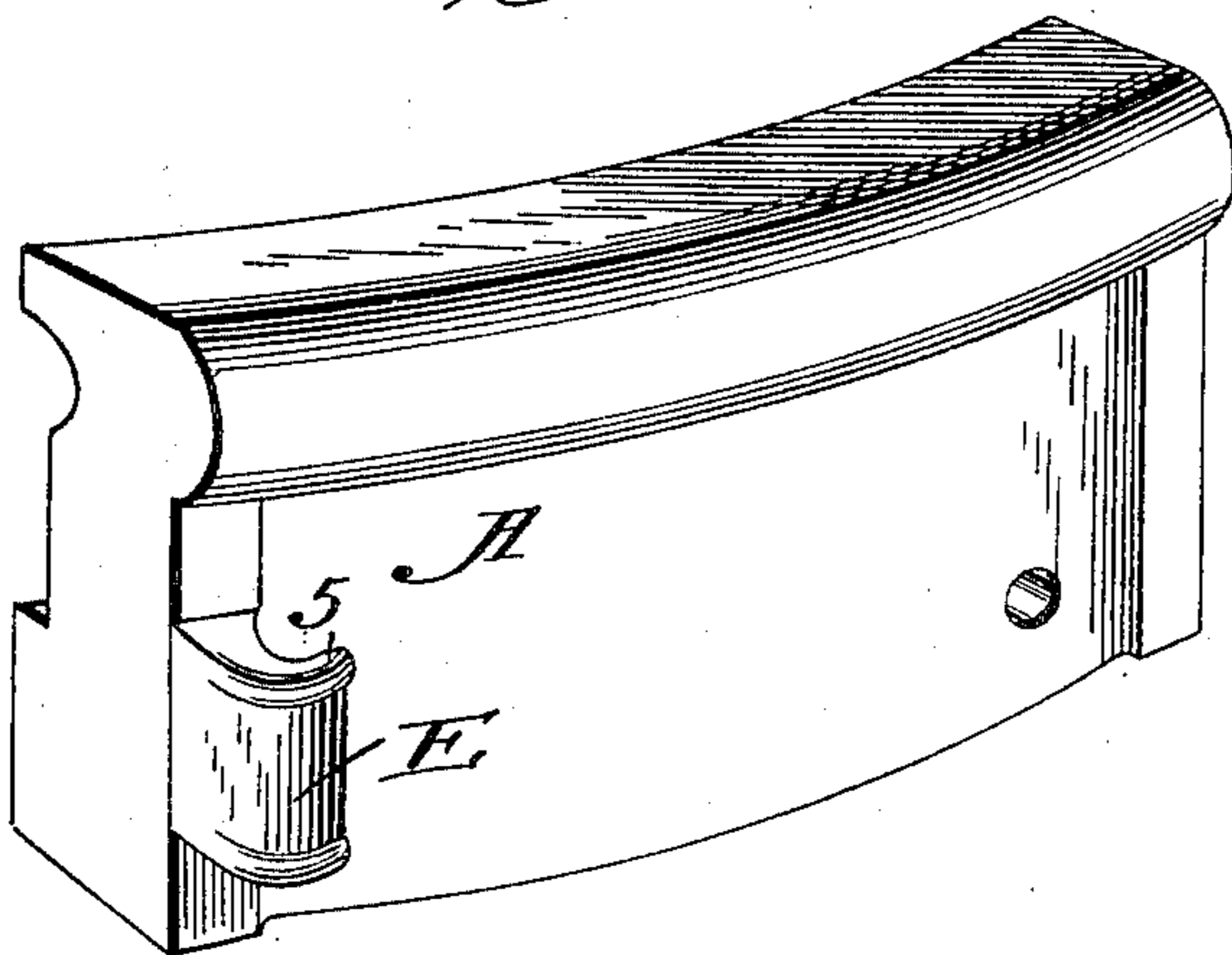
C. HERRON.

BRAKE SHOE.

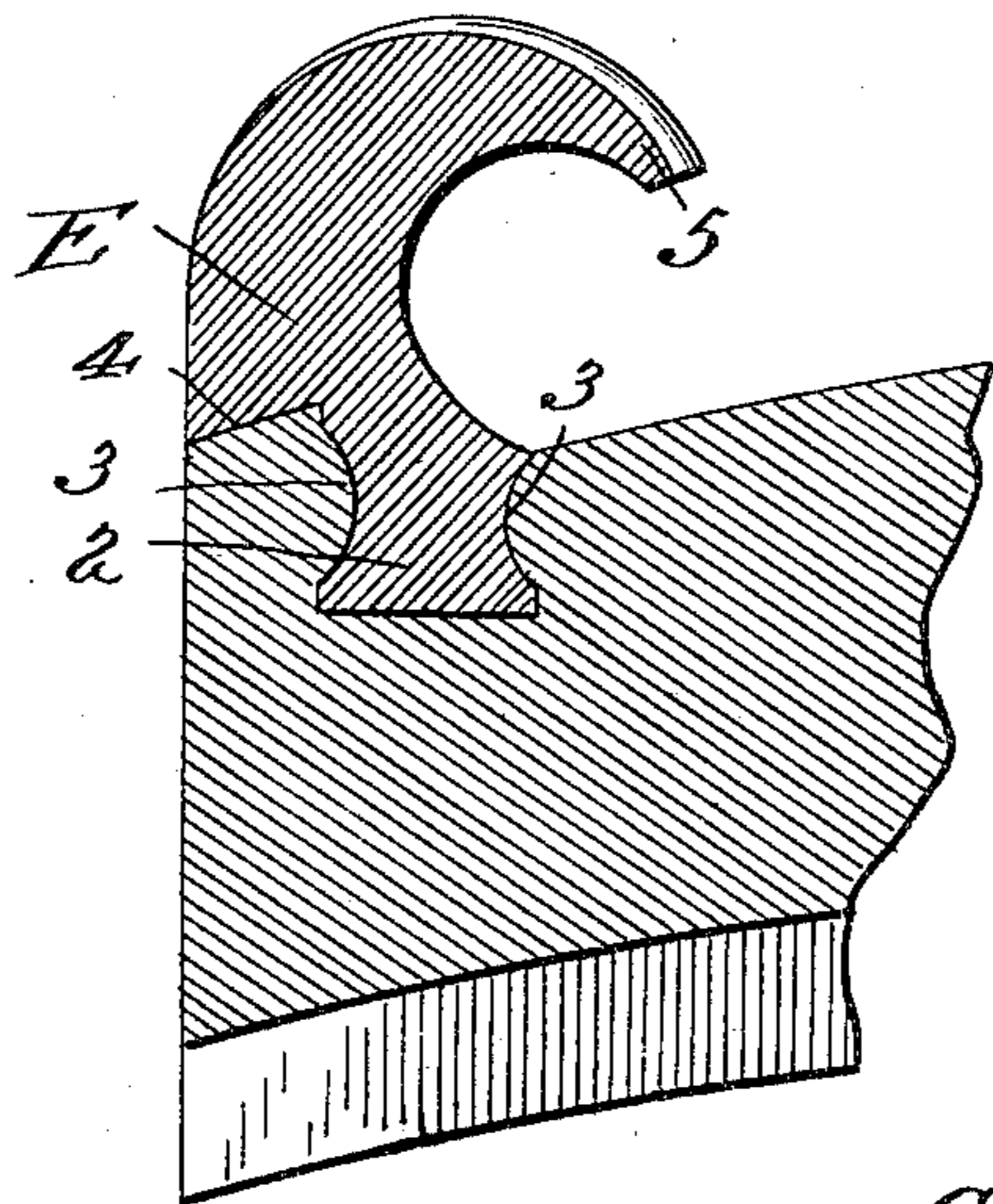
(Application filed Nov. 12, 1900.)

(No Model.)

*Fig. 1*



*Fig. 2.*



*Attest*  
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*Atty.*

# UNITED STATES PATENT OFFICE.

CHARLES HERRON, OF CHATTANOOGA, TENNESSEE.

## BRAKE-SHOE.

SPECIFICATION forming part of Letters Patent No. 672,365, dated April 16, 1901.

Application filed November 12, 1900. Serial No. 36,236. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES HERRON, a citizen of the United States, residing at Chattanooga, Tennessee, have invented certain new and useful Improvements in Brake-Shoes, of which the following is a specification.

My invention relates to brake-shoes of that class designed to be used on railway-locomotive driving-wheels. These shoes are ordinarily made of cast-iron and are provided with lugs or projections cast integral with the shoe for the purpose of holding them to the brake-head. The difficulty experienced in connection with such shoes is that before the shoe is worn out the holding-lug is liable to break, leaving the shoe insecurely connected with the brake-head. As a result of this there is not only loss in the shoes, but danger of derailment due to the shoes dropping upon the rail. Various expedients have been resorted to to remedy this difficulty, but they have been more or less deficient.

To provide a shoe which will be effectual for the purpose and at the same time at less expense, I have devised a form of lug and adapted it to the shoe so that it may be made separately out of metal tougher and less liable to break than the cast-iron and have adapted it to the shoe so that it may be fixed therein in the process of casting, hold the shoe to the brake-head securely, and permit the full wear of the metal.

My invention is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view, and Fig. 2 is a sectional view.

In the drawings, A represents the shoe, of ordinary shape and form, made of cast-iron.

E represents a lug the outer face of which is curved and which is provided with a hooked part 5 and a spur 2, upon which the metal of the shoe is to be cast. This spur is formed with any suitable recesses 3, into which the metal locks in the casting to hold the lug securely in place. Upon the upper or outer part of the lug is formed a shoulder 4, adapted to bear against the rear face of the shoe and to brace it securely in place. As will be seen by reference to Fig. 1, the lug is narrower than the shoe, leaving solid metal to each side as well as above and below, so that it is embedded and securely held in place and firmly braced. The lug may be made of steel or wrought-iron, forged, swaged, or malleable.

I claim as my invention—

A cast-iron shoe having an inwardly-curved lug provided with an offset shank or spur embedded in the metal of the shoe, and a shoulder extending outwardly to the end face of the shoe and bearing against the rear face, substantially as described.

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

CHAS. HERRON.

Witnesses:

R. H. WILLIAMS,  
I. C. MCCARTHY.