

J. COOK.
REINFORCED BRAKE SHOE.
APPLICATION FILED FEB. 19, 1912.

1,063,777.

Patented June 3, 1913.

Fig. 1.

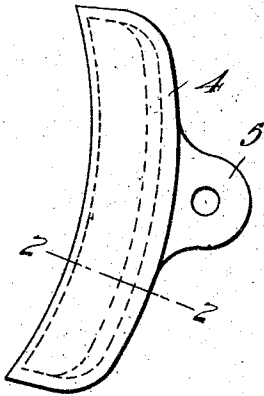


Fig. 3.

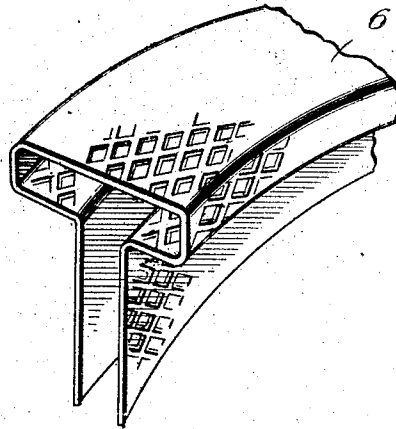
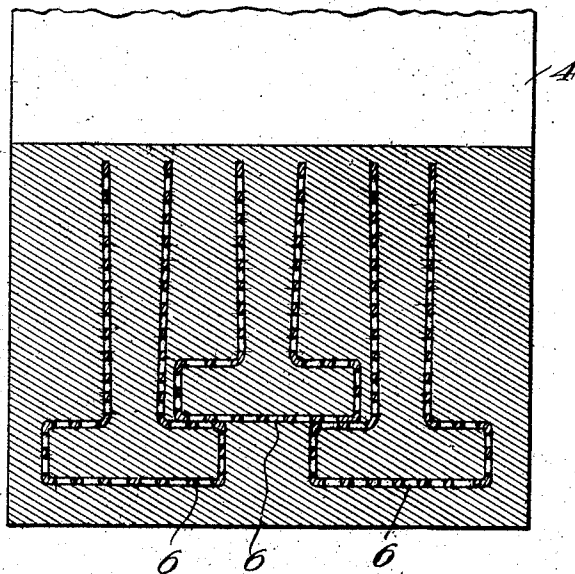


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

JUDSON COOK, OF PHILADELPHIA, PENNSYLVANIA.

REINFORCED BRAKE-SHOE.

1,063,777.

Specification of Letters Patent.

Patented June 3, 1913.

Application filed February 19, 1912. Serial No. 678,452.

To all whom it may concern:

Be it known that I, JUDSON COOK, a citizen of the United States of America, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Reinforced Brake-Shoes, of which the following is a specification.

This invention relates to brake shoes and, more particularly, to that class of shoe formed with metal inserts embedded within the cast-metal body portion of the shoe and worn away therewith.

The object of my invention is to provide inserts of such a form that they will impart a maximum of strength to the shoe; will tend to bind the shoe together and hold it intact should the cast body portion become cracked and also so formed that the inserts will not loosen and drop out through cracking or splitting of the body.

With these and such other objects in view as will hereinafter more fully appear, my invention consists in the novel construction and arrangement of parts described in the annexed specification and shown in the accompanying drawings, in which—

Figure 1 is a side elevation of the shoe. Fig. 2 is a sectional view taken on the line 2—2 of Fig. 1. Fig. 3 is a perspective view, shown in broken detail, of the insert.

In said drawings a brake shoe 4 formed with a suitable securing lug 5 has embedded therein the inserts 6 of any suitable material but, preferably, of expanded metal. These inserts are, as shown, bent in the form of an open T and arranged, the two

outer ones occupying the same relative positions at either side of the shoe and the central one lying between the former two and in such a way that the cross arms of the T overlap. By this arrangement the back of the shoe is firmly braced and rendered less liable to crack or break under strain and, by the overlapping of the cross arms, the liability of complete separation of the parts, should a crack in the cast-body occur, is materially lessened.

The shoe is made in the usual way. The inserts being set up in the molds the heated metal is poured therein and allowed to cool.

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

1. A brake shoe comprising a body portion, inserts embedded therein said inserts being in the form of an open T and having their cross arms overlapping.

2. A brake-shoe comprising a cast metal body portion, inserts embedded therein comprising strips of expanded metal bent to form an open T said inserts being arranged with the cross arms of the T adjacent the back of the shoe in such a way that the ones nearer the sides of the shoe have their cross arms overlapping the central one and a lug carried by said shoe and adapted to secure the same to the brake head.

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

JUDSON COOK. [L. S.]

Witnesses:

EMIL SCHNELL,
PAULINE SCHNELL.