

(No Model.)

A. BRAKE.
BRAKE SHOE.

No. 499,509.

Patented June 13, 1893.

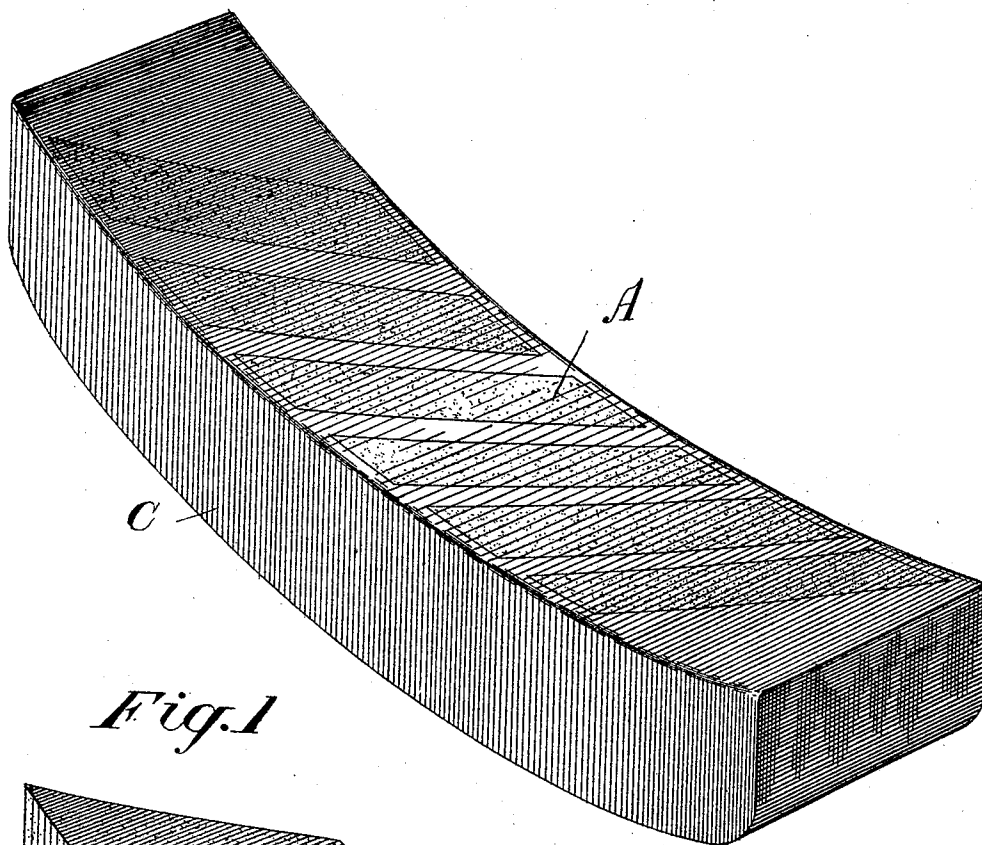


Fig. 1

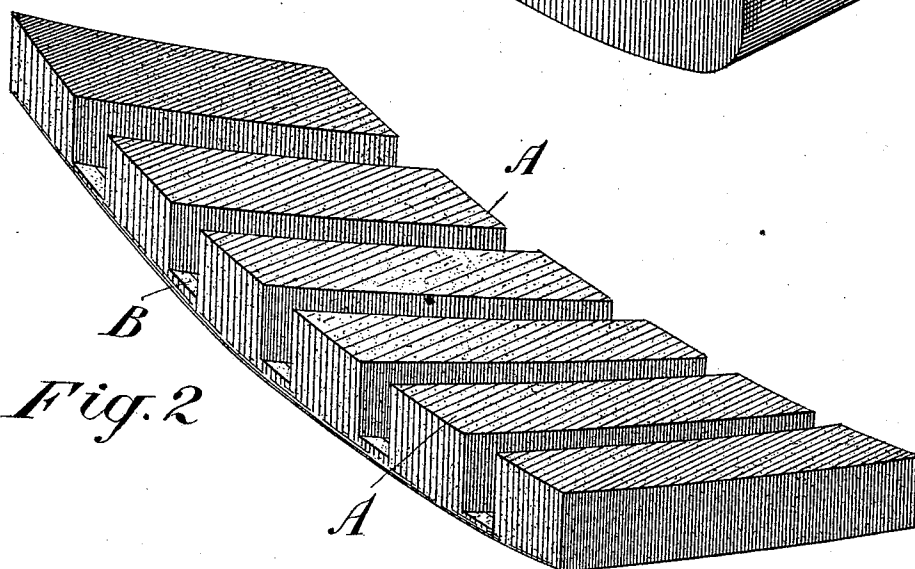


Fig. 2

Witnesses.

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Inventor:

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UNITED STATES PATENT OFFICE.

ARCHIBALD BRAKE, OF TORONTO, CANADA.

BRAKE-SHOE.

SPECIFICATION forming part of Letters Patent No. 499,509, dated June 13, 1893.

Application filed October 20, 1892. Serial No. 449,456. (No model.)

To all whom it may concern:

Be it known that I, ARCHIBALD BRAKE, of the city of Toronto, in the county of York, in the Province of Ontario, Canada, have invented a certain new and Improved Brake-Shoe, of which the following is a specification.

The object of the invention is to provide a brake shoe that will last longer than one made of soft iron and at the same time will not cut into any soft spots which may be in the wheel, and it consists, essentially, of a shoe with a series of diagonal strips cast in its rubbing surface, the said strips being first cast by themselves and then inserted in a brake shoe molded so that when the metal is poured into the mold, it will surround the strips on three sides and be chilled where it comes into contact with the said strips; substantially as hereinafter more particularly explained and then definitely claimed.

Figure 1, is a perspective view of my improved brake shoe. Fig. 2, is a similar view of the strips before they are cast into the shoe.

The strips A, are first cast as shown in Fig. 2, and connected together by the longitudinal bars B. These strips are arranged diagonally,

and being held by the bars B, will remain in their proper position when placed in the mold of the shoe C. When the metal is poured into the mold, it will surround three sides of the strips A, leaving a rubbing surface, as shown in Fig. 1.

The narrow spaces between the strips A, are of course chilled by coming in contact with a larger body of metal, forming the surface of the shoe with alternate strips of hard and soft metal, and as the said strips are diagonal, they may be held in contact with the wheel without any fear of its cutting into soft spots therein.

What I claim as my invention is—

In a brake-shoe, a series of diagonal strips A, connected together by the bars B, and a shoe C cast around the strips and chilled on that part of its surface in contact with said diagonal strips, substantially as shown and described.

Toronto, October 8, 1892.

ARCHIBALD BRAKE.

In presence of—

A. M. NEFF,
J. EDW. MAYBEE.