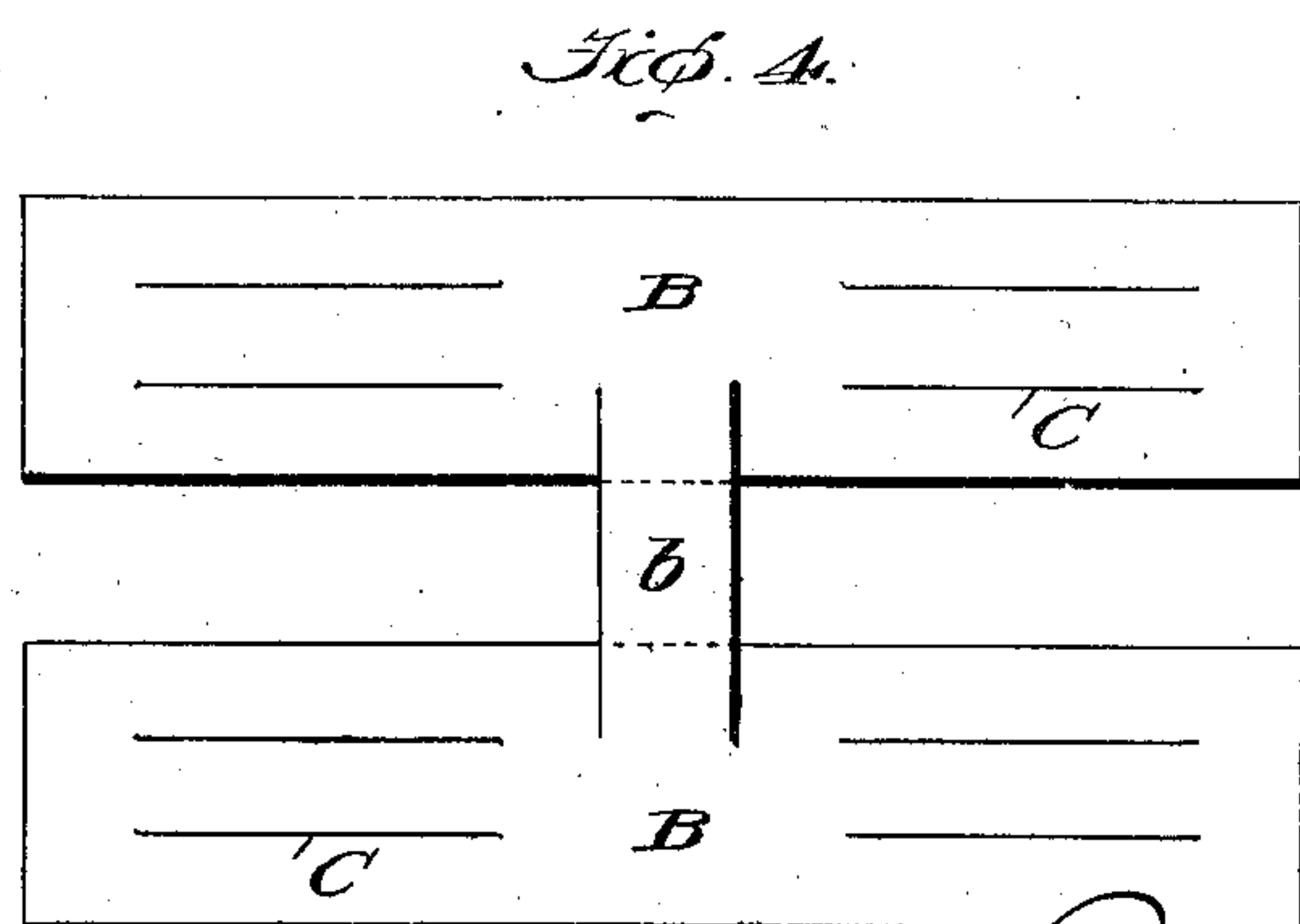
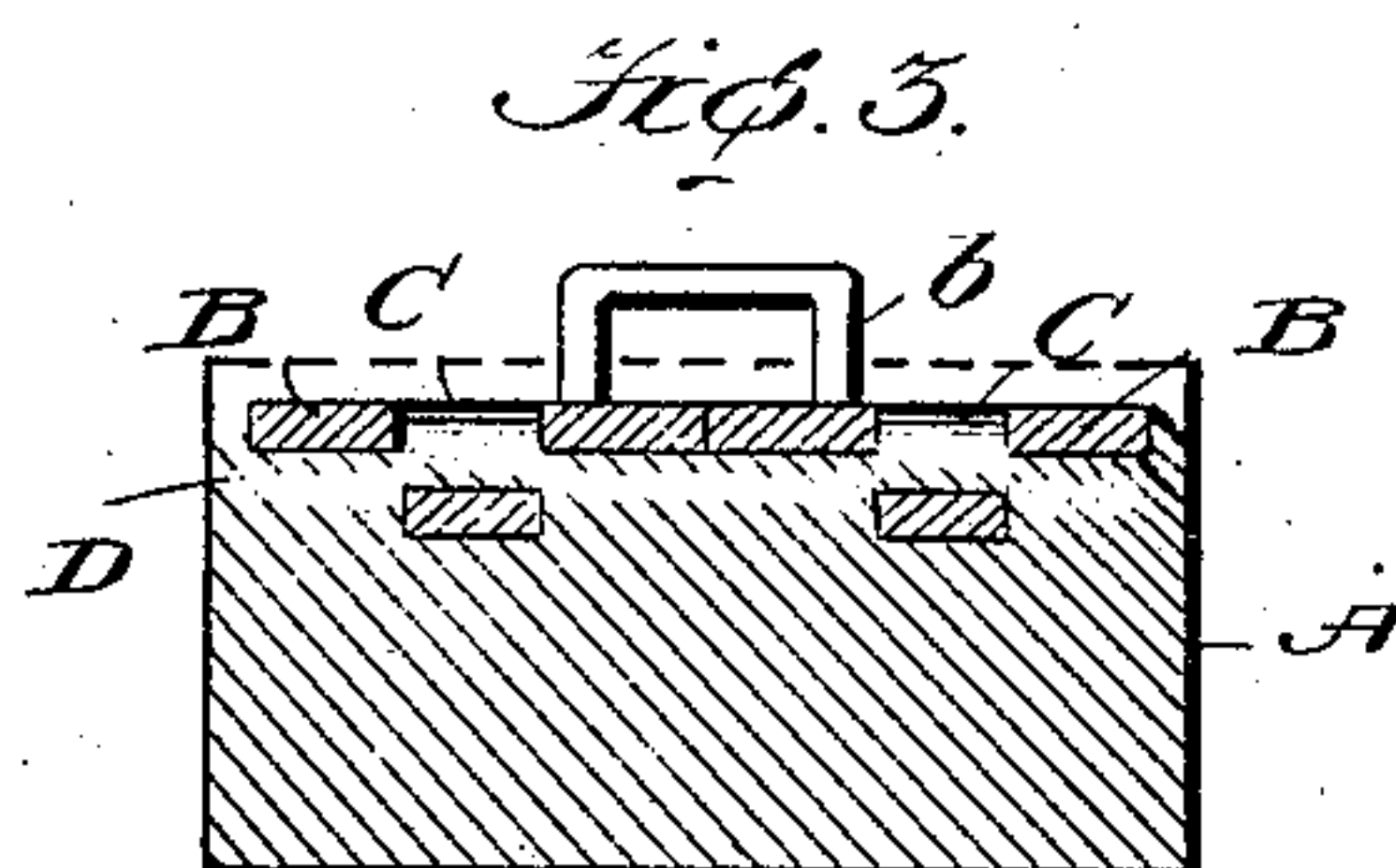
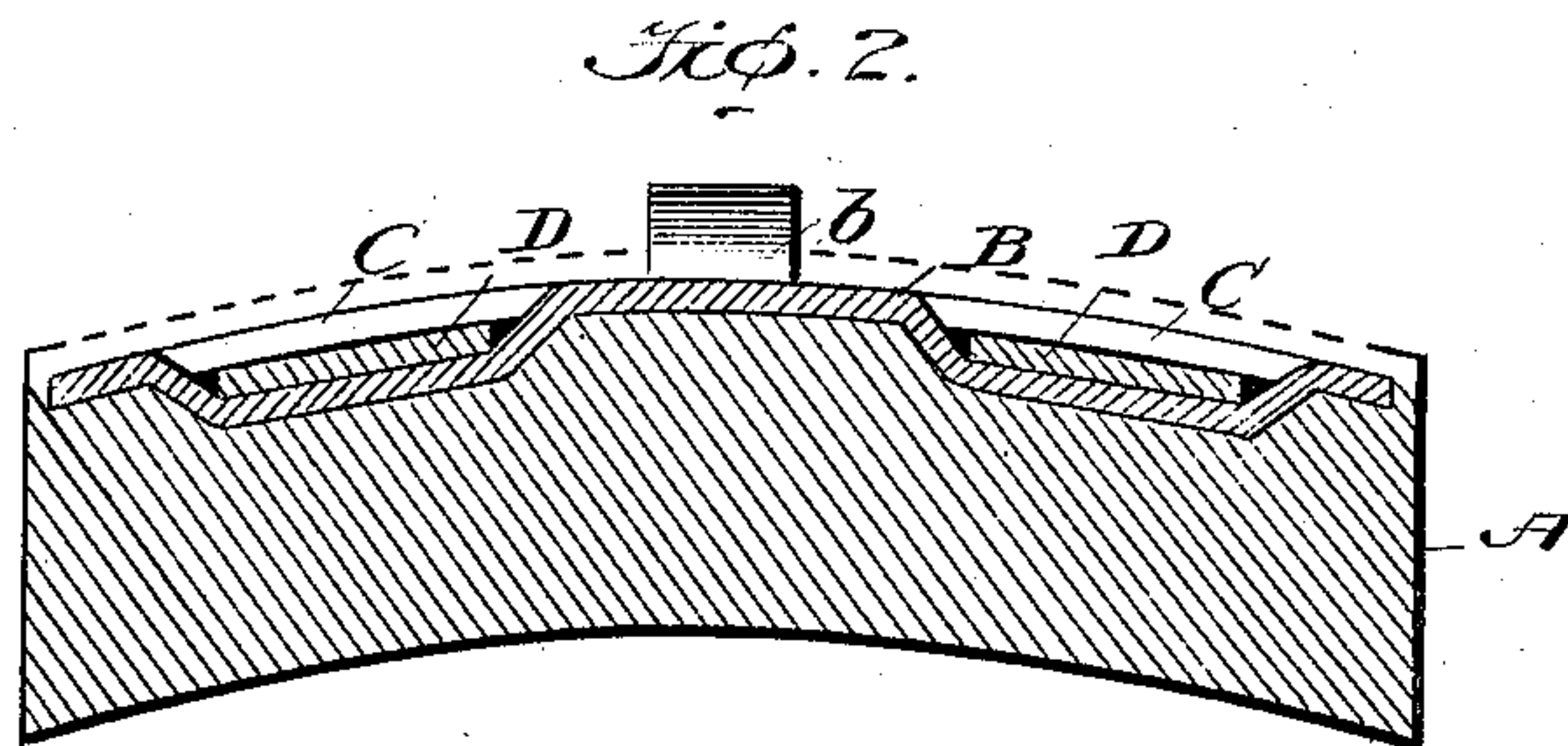
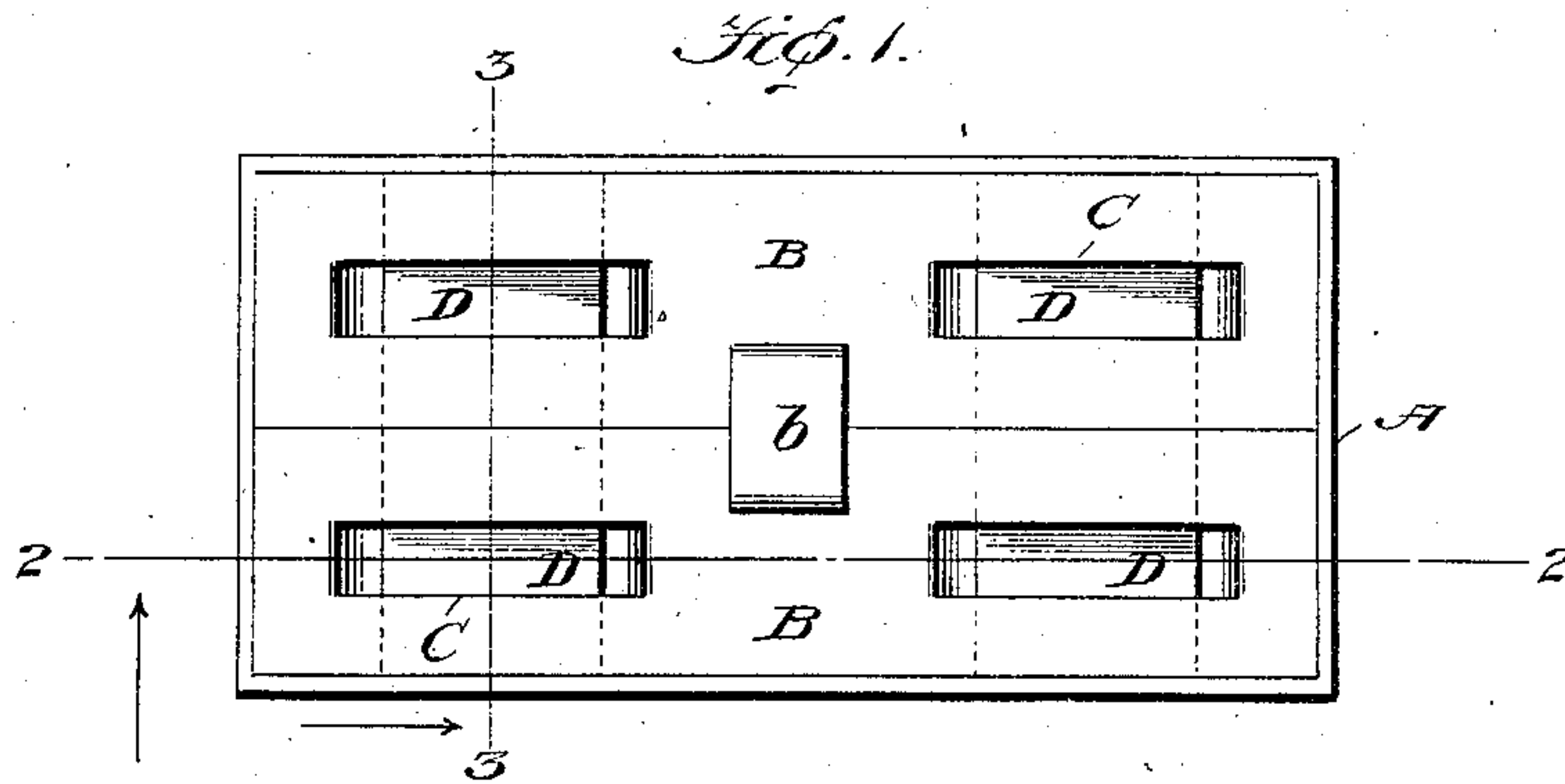


No. 877,055.

PATENTED JAN. 21, 1908.

J. COOK.  
REINFORCED BRAKE SHOE.  
APPLICATION FILED MAY 8, 1907.



Witnesses

*A. L. Hough*

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Attorney



# UNITED STATES PATENT OFFICE.

JUDSON COOK, OF PHILADELPHIA, PENNSYLVANIA.

## REINFORCED BRAKE-SHOE.

No. 877,055.

Specification of Letters Patent.

Patented Jan. 21, 1908.

Application filed May 8, 1907. Serial No. 372,511.

*To all whom it may concern:*

Be it known that I, JUDSON COOK, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Reinforced Brake-Shoes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in brake shoes, and the object of the invention is to produce a simple and efficient device of this nature comprising essentially a shoe having a cast metallic body and a forged steel blank reinforcement embedded in the body and provided with truss ribs for the purpose of strengthening and stiffening the shoe.

My invention comprises various details of construction and combinations and arrangements of parts which will be hereinafter fully described and then specifically defined in the appended claims.

I illustrate my invention in the accompanying drawings, in which:—

Figure 1 is a top plan view of the brake shoe. Fig. 2 is a longitudinal sectional view taken on line 2—2 of Fig. 1. Fig. 3 is a cross sectional view on line 3—3 of Fig. 1, and Fig. 4 is a top plan view of the reinforcing forged metallic plate or blank.

Reference now being had to the details of the drawings by letter, A designates a cast metallic body portion of the shoe and B designates a blank or plate of forged steel which is longitudinally slitted, as at C, forming reinforcing ribs. Said blank, a detail of which is shown in Fig. 4 of the drawings, is substantially H-shaped in top plan view, the two longitudinal portions being provided with the parallel slits described and connected together by means of the strap b which is integral with said parallel portion. Said blank, after being bent in the form shown in Figs. 1 to 3, inclusive, is embedded in the body portion, the inner marginal edges of the parallel portions of the plate being brought in contact with each other, said strap B forming a loop, as shown clearly in

Fig. 3 of the drawings to receive a key for fastening the shoe to a supporting means, while the straps formed by slitting the blank are depressed and surrounded by the metal of the cast body portion, thereby securely anchoring the blank or plate to the upper portion of the shoe. It will be noted that the circumferential edge of the body portion in which said plate is embedded projects a slight distance above the upper surface of the blank forming a rib which further reinforces the shoe by securely holding the blank in place.

From the foregoing, it will be noted that by the provision of a brake shoe made in accordance with my invention, the body portion will be thoroughly reinforced, strengthened and stiffened by the peculiar manner of incorporating the forged steel blank as shown and described.

What I claim to be new is:—

1. A reinforced brake shoe comprising a cast metallic body portion, a forged blank comprising two parallel portions which are connected together by a strap forming a loop, the edges of said parallel portions being in contact with each other and incorporated in said cast body portion, as set forth.

2. A reinforced brake shoe comprising a cast metallic body portion, a forged blank comprising two parallel portions which are connected together by a strap forming a loop, the edges of said parallel portions being in contact with each other and incorporated in said cast body portion, said blank being slitted longitudinally forming straps over which portions of the cast body extend, as set forth.

3. A reinforced brake shoe comprising a cast metallic body portion, a forged blank comprising two parallel portions which are connected together by a strap forming a loop, the edges of said parallel portions being in contact with each other and incorporated in said cast body portion, said blank being slitted longitudinally forming straps over which portions of the cast body extend, a portion of the body extending above the marginal edge of said blank, as set forth.

4. A reinforced brake shoe comprising a cast metallic body portion, a forged steel reinforcing blank comprising two parallel portions connected together by means of a strap, the ends of which fasten to said paral-

lel portions a distance in from the inner  
edges thereof and designed to form a loop,  
said blank being slitted longitudinally form-  
ing straps which are bent to receive portions  
5 of the cast body, whereby the reinforcing  
plate may be securely anchored thereto, as  
set forth.

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

JUDSON COOK.

Witnesses:

LEWIS W. COLFELT,  
FRANK C. BILS.