(No Model.)

A. L. STREETER.

BRAKE.

No. 345,652. Patented July 13, 1886.

Fig. 2.

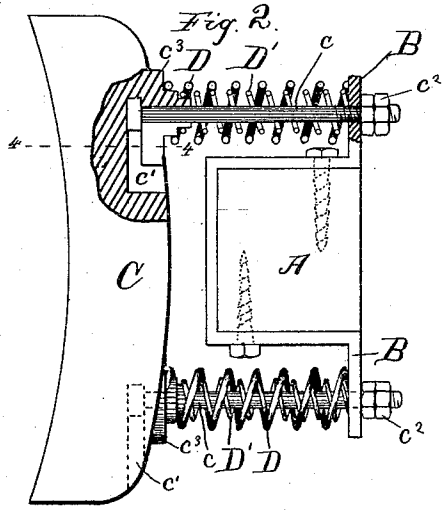


Fig. 1.

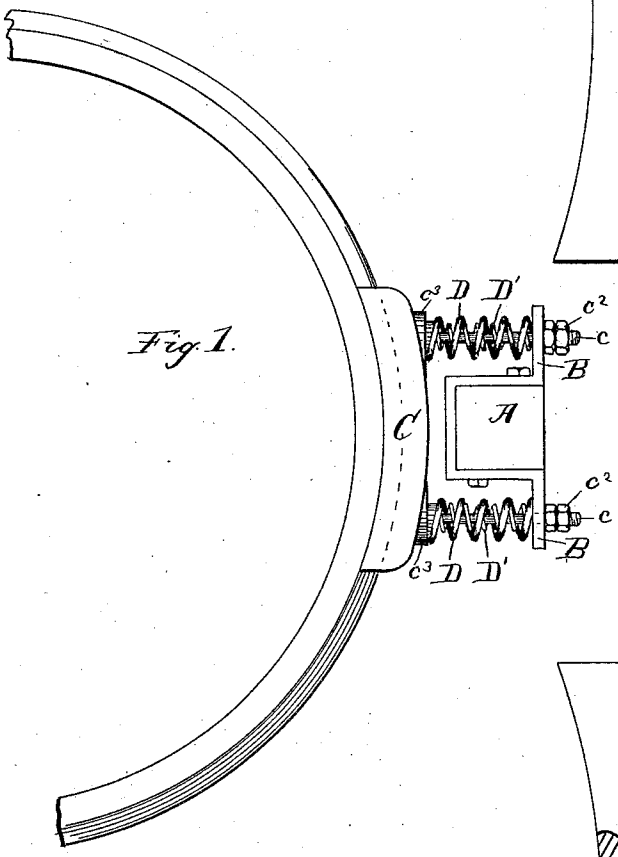


Fig. 4.

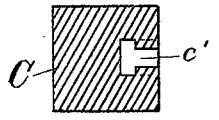
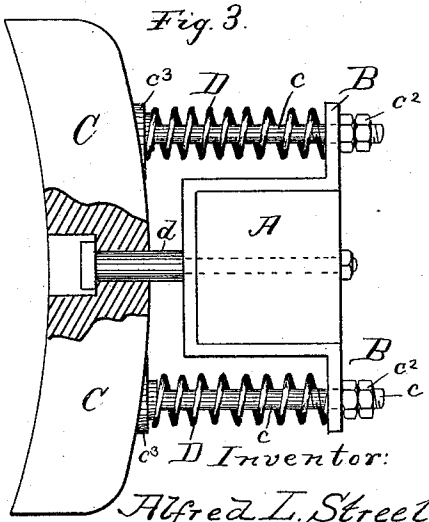


Fig. 3.



Witnesses:
Lew. E. Curtis
W. M. Munday

Inventor:
Alfred L. Streeter
By Taylor & Brown
His Attorneys.

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

ALFRED L. STREETER, OF CHICAGO, ILLINOIS.

BRAKE.

SPECIFICATION forming part of Letters Patent No. 345,652, dated July 13, 1886.

Application filed April 19, 1886. Serial No. 199,445. (No model.)

To all whom it may concern:

Be it known that I, ALFRED L. STREETER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Brake-Beam Shoes; and I do hereby declare the following to be such a full, clear, and exact description of the invention as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming a part of this specification, and in which similar letters of reference indicate like parts.

In the drawings, Figure 1 represents a device embodying my invention; Fig. 2, an enlarged view of the same partly in section; Fig. 3, a similar view of a slightly modified form, and Fig. 4 a transverse section taken on line 4 4 of Fig. 2.

The invention relates to that class of brake-shoes where a spring or springs are interposed between the beam and the shoe proper; and the invention consists in the novel devices and combination of devices herein shown, described, and more specifically pointed out in the claims.

In the drawings, the letter A represents the end of the brake-beam. The connections and method of applying pressure to this beam I have not shown or described, as they form no part of the present invention.

B is a metal bracket projecting on either side of the beam and usually made integral with the band, so as to form one piece of metal.

C is the shoe, of usual form, and is provided at either end with a bolt, *c*, removably secured thereto by means of proper slots, *c'*, in the shoe or rigidly secured thereto, as illustrated in Fig. 3. These bolts *c* are long enough to extend through openings in the brackets B, and are provided with nuts c^2.

D is a spiral spring interposed between each bracket B and the shoe, as shown, and around the bolts *c*.

D' is a feather-weight spring, which in some cases I find convenient to place around the bolt *c*, but inside of the larger spring D. The ends of the springs are retained in position on the back of the shoe C by raised portions or hubs c^3.

The brackets may be secured by lag-screws or by a central bolt, *d*, as shown.

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

1. The brake-shoe C, movably secured to the brake-beam by means of the bolts *c*, in combination with said beam, and the brackets B, and the spring or springs surrounding said bolts *c* and interposed between said brackets and the ends of the shoe, substantially as specified.

2. The brake-shoe C, provided on its back or rear portion at each end with raised projections c^3, and having also proper slots or openings, *c'*, at each end to receive the bolts, substantially as and for the purpose set forth.

ALFRED L. STREETER.

Witnesses:

N. W. HOWELL,

TAYLOR E. BROWN.