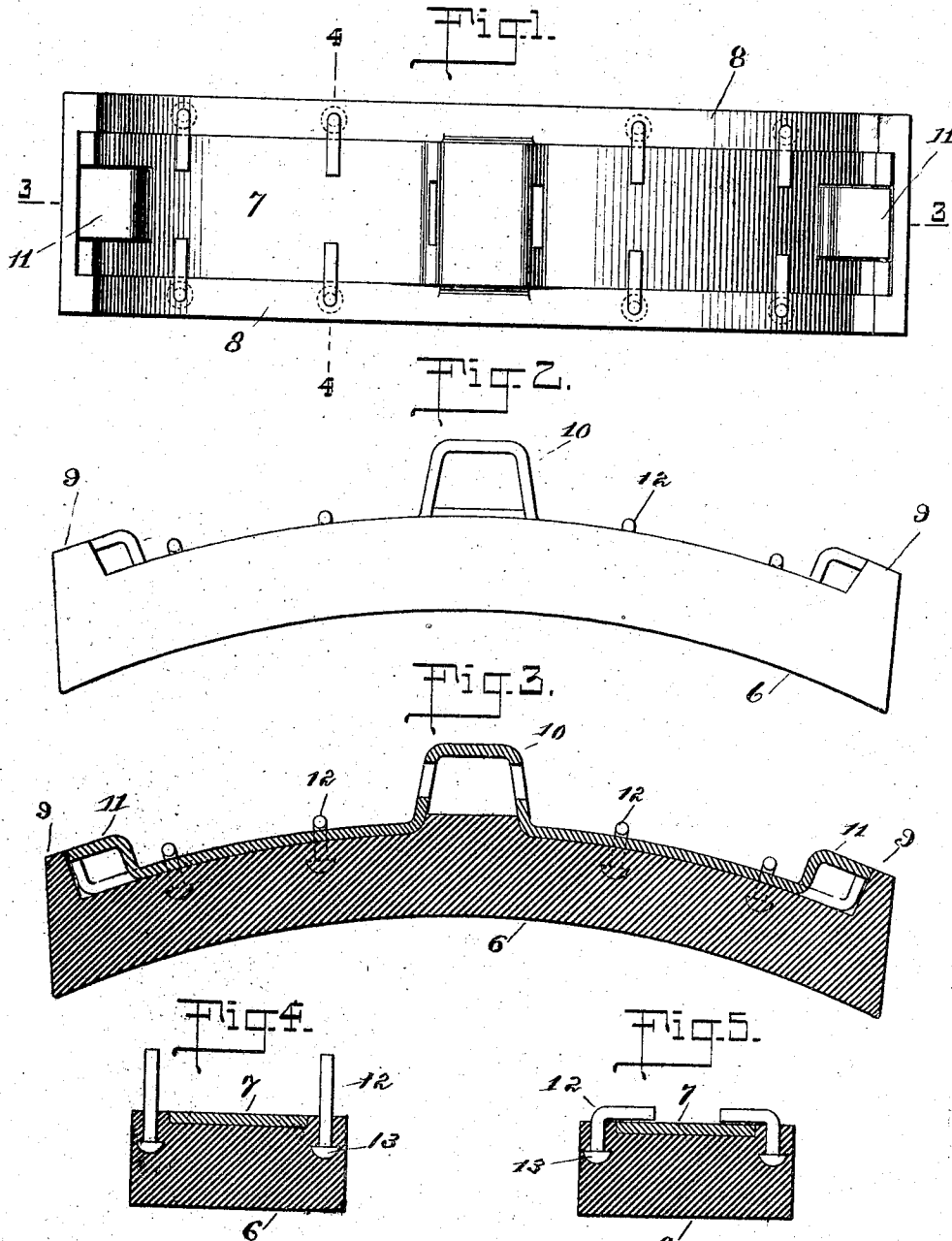


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 BRAKE SHOE.  
 APPLICATION FILED AUG. 19, 1909.

942,343.

Patented Dec. 7, 1909.



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

CHARLES B. McPHILLIPS, OF SUFFERN, NEW YORK, ASSIGNOR TO EDWARD H. FALLOWS, OF NEW YORK, N. Y.

## BRAKE-SHOE.

942,343.

Specification of Letters Patent.

Patented Dec. 7, 1909.

Application filed August 19, 1909. Serial No. 513,552.

*To all whom it may concern:*

Be it known that I, CHARLES B. McPHILLIPS, a citizen of the United States, and a resident of Suffern, in the county of Rockland and State of New York, have made and invented certain new and useful Improvements in Brake-Shoes, of which the following is a specification.

My invention relates to an improvement in brake shoes, and more particularly to that kind or type thereof usually known and referred to as "steel back" shoes, that is, to a shoe wherein is employed a strengthening plate located at or adjacent to the back of the cast metal body for the purpose of holding together the fragments or sections of the shoe should the same become cracked or injured, the object of my invention being to provide a shoe wherein the strengthening plate may be readily and easily attached to the cast metal body, and so locked thereto as to avoid any and all danger of its becoming detached therefrom.

A further object of the invention is to so secure the strengthening plate in position, as will permit of its ready detachment from the cast metal body, after the latter has been worn away in service, and thereby permit of its further and continued use in connection with new shoes.

With these and other ends in view, the invention consists in certain novel features of construction and combinations of parts, as will be hereinafter fully described and pointed out in the claims.

In the accompanying drawings, Figure 1 is a plan view of my improved shoe. Fig. 2 is a view thereof in side elevation. Fig. 3 is a sectional view taken on the line 3—3 of Fig. 1. Fig. 4 is a cross sectional view taken on the line 4—4 of Fig. 1, prior to the holding pins being bent downwardly on the strengthening plate. Fig. 5 is a sectional view taken on the line 4—4 of Fig. 1, after the pins have been bent down to secure the strengthening plate in its proper position with relation to the cast metal body.

Referring to the drawings, 6 represents the cast metal body of the shoe, the upper side or surface being formed with a depression, and with the two side flanges 8, the ends of the shoe being provided with the usual stops 9. In the depression in the back

of the shoe, fits the strengthening plate 7, provided with the key-lug 10, and at its ends with the guide lugs 11, this strengthening plate being formed of sheet steel, wrought, or other desired metal, and when coupled with the cast metal body, lies flush with the upper sides or surfaces of the flanges 8, as clearly illustrated in the sectional views, Figs. 4 and 5 of the drawings.

In the body of the shoe are the pins or lugs 12, their lower ends being headed, as illustrated at 13 and anchored in the cast metal of the shoe, said pins or lugs extending upwardly through the flanges 8. After the strengthening plate 7 has been placed in position within the recess or depression in the back of the shoe, these pins or lugs are then bent over onto the upper side or surface of the plate, as illustrated in Figs. 1 and 5, thereby securely holding or locking said plate in position and forming an efficient connection between the two parts of the complete shoe. After the body 6 of the shoe has been worn away in service, these pins or lugs 12 may be bent upwardly, as illustrated in Fig. 4, permitting the back to be removed or detached from the worn shoe and again employed in connection with a new shoe, thereby effecting a great saving over the old or common types of shoes wherein the strengthening plate is scrapped with the worn body.

The invention is exceedingly simple in construction and cheap to manufacture, the lugs or pins 12 being properly placed in the mold prior to the pouring of the cast metal therein, the heads 13 of the pins securely anchoring them in place in the body of the shoe. Furthermore, it will be understood that the back is easily and readily attached to and detached from the body of the shoe, thereby effecting a material saving in time and labor over those types of shoes wherein it is necessary to cut or otherwise remove the heads from bolts or rivets employed for the purpose of holding the plate in its proper position on the shoe.

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

1. A brake shoe consisting of a cast metal body and a strengthening plate located at or adjacent to the back thereof, and pins, one

end of each of which is anchored in said body and the opposite end bent over and upon said plate, substantially as described.

2. A brake shoe comprising a cast metal body and a strengthening plate, and pins, one end of each of which is headed and anchored in said body, and the opposite end bent over and upon said plate, substantially as described.

10 3. A brake shoe comprising a cast metal body provided at its back with a recess, a strengthening plate located within said recess, and pins, one end of each of which is anchored in the cast metal body, and the opposite end bent over and upon said plate, whereby to removably lock the latter to said body, substantially as described.

20 4. A brake shoe comprising a cast metal body provided at its back with a recess, a plate formed with key and guide lugs and located in said recess, pins, one end of each of which is headed and anchored in said body, the opposite end being bent over and

upon said plate, whereby to removably hold the latter in position on said body, substantially as described. 25

5. A brake shoe comprising a body provided with side flanges on its back, and with end stops, a strengthening plate located on the back of said body and between said 30 flanges, and provided with key and guide lugs, pins, one end of each of which is anchored in said body, the opposite end projecting up through said flanges, and bent over and upon said plate, whereby to re- 35 movably lock the latter in position on said body, substantially as described.

Signed at New York, borough of Manhattan, in the county of New York, and State of New York, this 16th day of August, A. D. 40 1909.

CHARLES B. McPHILLIPS.

Witnesses:

M. VAN NORTWICK,  
W. P. EDSON.