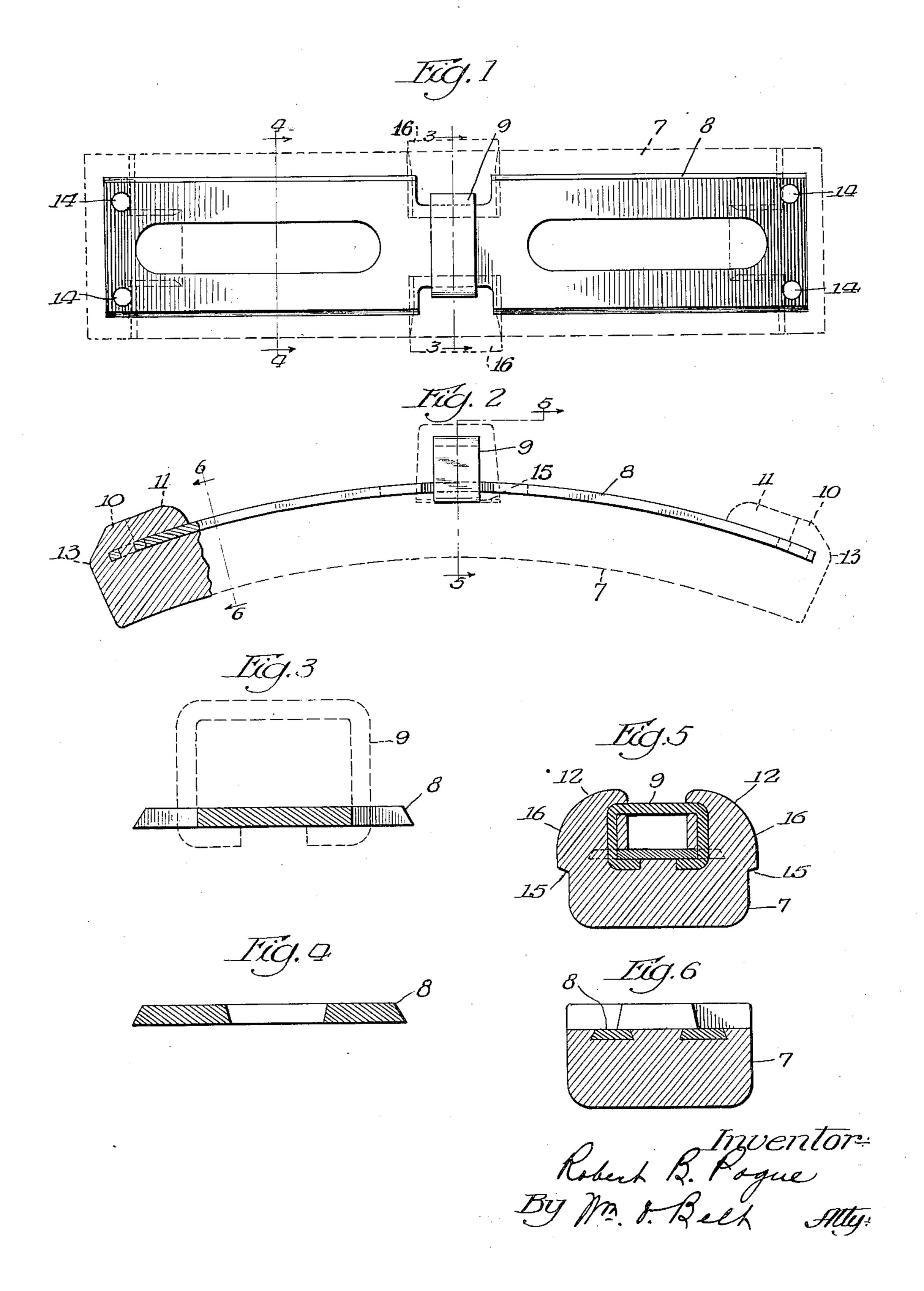
BRAKE SHOE

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BRAKE SHOE

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This invention relates to brake shoes and wearing face is no longer than it has been 5 ing face.

the body metal at the sides of the attaching anchoring the end lugs and guide lugs to the lug thereby giving this portion of the cast body and to the back. It has been the praciron body greater strength and resistance to 10 the conditions met with in service.

having a ductile metal back commonly called these projections have constituted in effect a steel back and with a solid cast iron body, and referring thereto.

Fig. 1 is a top plan view showing the back and lug strap in full lines and the body and the cast iron parts of the shoe in broken lines.

Fig. 2 is a side elevation of Fig. 1. Fig. 3 is a section on the line 3—3 of Fig. ²⁰ 1 showing the back in full lines and the lug strap in broken lines.

Fig. 4 is a section of the back on the line 4—4 of Fig. 1.

Fig. 5 is a section on the line 5—5 of Fig. 25 2 showing all the parts in full lines.

Fig. 6 is a section on the line 6—6 of Fig. 2 showing all the parts in full lines.

The back and the lug strap are assembled as of the projections 12 at 16 increases the cross- 75 cast iron forms the body, the end lugs 10, the in proportion to the increased cross-sectional end guides 11 and the projections 12 at the area of contact. This is accomplished with-

portion of the body opposite the ends of the projections at the sides of the lug strap have stantially as much body metal beyond the projections thereby affording greater pro- 85° ends of the back as there has been hereto- tection for the strap while at the same time fore, and notwithstanding the lengthening the projections function with the strap in the of the back to extend under the end lugs. same manner as before in forming the at-In the construction shown the enlargements taching lug.
taper toward the face of the shoe and the I do not restrict the invention to the par- 90°

more particularly to common cast iron shoes heretofore; and the enlargements taper towhich are provided with reenforce backs ward the end lugs and add to the strength and may be provided with inserts in the wear- thereof. I also prefer to provide the ends of the back beneath the end lugs with openings 50 The object of the invention is to increase 14 to receive the cast iron for more securely tice to run the body metal up at the sides of the lug strap to form with the strap the at- 55 I have shown the invention in a car shoe taching lug of the shoe. The outer faces of a curved continuation of the sides of the shoe and the transverse width of the lug has not been greater than the transverse width of the 60 body of the shoe but I enlarge the projections 12 at 16 thereby increasing the width of each projection and the width of the attaching lug so that the outer faces of the projections will extend beyond the planes of the 65° sides of the body. These enlargements extend somewhat forward of the reenforce back and form shoulders which may be employed to indicate the limit of wear of the body of the shoe. This enlargement of the projec- 70 tions 12 increases the strength of the projections and the attaching lug as a whole and Referring to the drawing 7 is the body, 8 is enables it to withstand the service conditions the ductile metal back and 9 is the lug strap. to which it is subjected. The enlargement indicated and placed in a mold, and then the sectional area of the cast iron lug reenforcemolten cast iron is poured into the mold and ment, which contacts with the brake head and embeds the back and lug strap therein. The thereby decreases the wear on the brake head sides of the lug strap 9. out changing the method of manufacture. I provide the enlargements 13 at the upper The enlargements at the outer faces of the back so that there will be as much or sub- the effect of increasing the strength of these

ticular embodiment illustrated in the drawing but propose to employ it in any shoe for which it is or may be adapted and I reserve the right to make all changes in the form, construction and arrangement of parts within the scope of the following claim.

I claim:

A brake shoe comprising a body, a reenforce back embedded in the body at the back thereof, a lug strap engaged with the reenforce back, and projections from the body extending above the back of the body at the sides of the lug strap to form therewith an attaching lug, said projections being enlarged laterally of the shoe and extending beyond the sides of the body to increase the cross-sectional area of the attaching lug and reduce wear on the brake head.

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