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B. L. WEAVER & C. W. REINOEHL.  
HEEL BLOCK FOR RAILROAD FROGS AND THE LIKE.

APPLICATION FILED JULY 28, 1907.

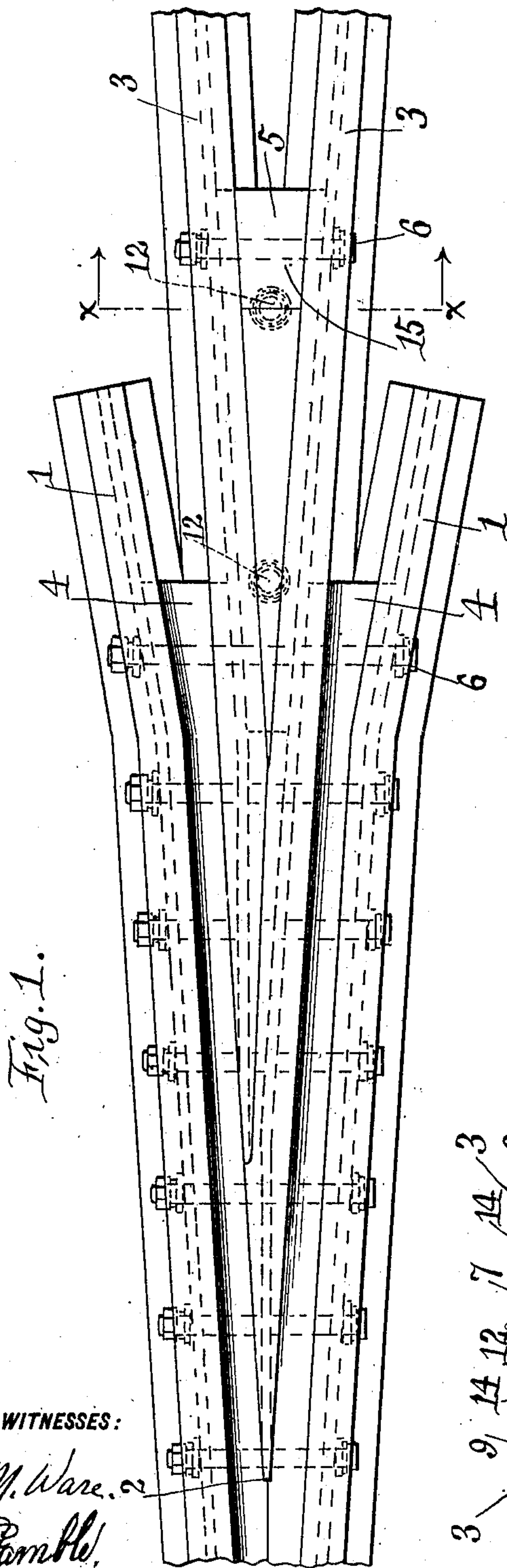


Fig. 1.

WITNESSES:

Ella M. Ware.  
J. H. Gamble.

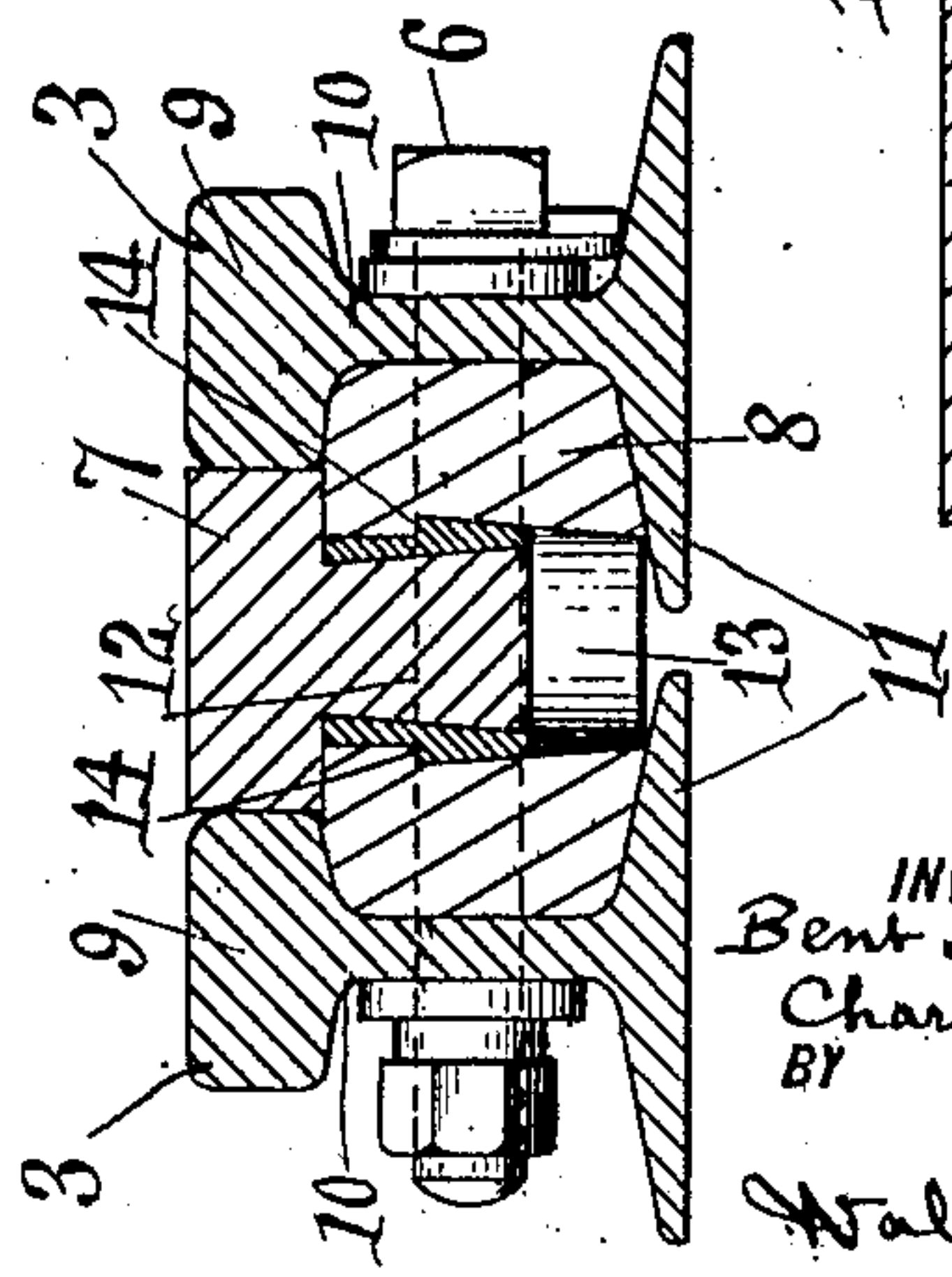
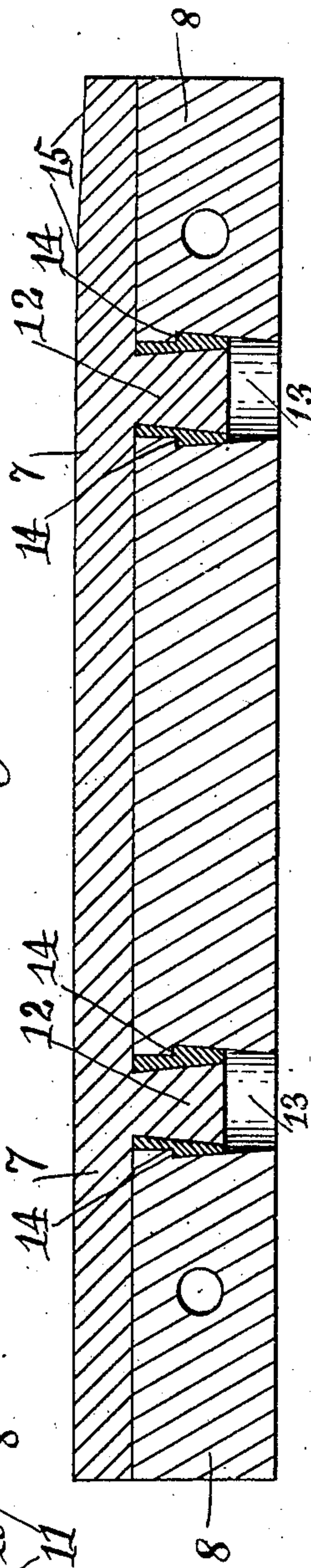


Fig. 2.

Fig. 3.



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# UNITED STATES PATENT OFFICE.

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## HEEL-BLOCK FOR RAILROAD-FROGS AND THE LIKE.

No. 881,984.

Specification of Letters Patent.

Patented March 17, 1908.

Application filed July 26, 1907. Serial No. 385,680.

*To all whom it may concern:*

Be it known that we, BENT L. WEAVER and CHARLES W. REINOEHL, citizens of the United States, and residents of Steelton, Dauphin county, State of Pennsylvania, have invented certain new and useful Improvements in Heel-Blocks for Railroad-Frogs and the Like, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, of which—

Figure 1 is a plan view of a portion of a railroad frog or crossing, showing our invention applied thereto. Fig. 2 is an enlarged section as on the line  $x-x$ , Fig. 1. Fig. 3 is an enlarged medial vertical section through the heel block shown in Figs. 1 and 2.

This invention relates to improvements in heel blocks for railroad frogs and the like. The object of the invention is to provide a heel block comprising a hard metal upper wear portion and a lower portion of cast iron or the like, which two portions may be detached from each other, and either or both readily renewed.

To this end the invention consists in the novel features of construction hereinafter particularly pointed out.

1 indicates the wing rails; 2, the point of the frog; 3, the track-rails converging toward the point, and 4 the usual intervening filling piece between said point-forming and wing rails.

Inserted between the rails 3, is the heel block, 5, embodying our invention; being held in place between the rails by the bolts, 6. Said heel block, 5, comprises upper and lower portions, 7 and 8 respectively, the upper portion, 7, being formed preferably of relatively hard steel, and constituting the wearing surface of the heel block. The lower portion, 8, which we would usually make of ordinary cast iron, is fitted beneath the heads, 9, of the track rails, 3, and against the webs, 10, thereof; the under surface of said filling piece resting, either wholly or in part, upon the inwardly extending foot flanges, 11, of the said rails; all in the usual manner.

The upper hard steel casting, 7, of the heel

block, is provided, on its under surface, with downwardly extending lugs or studs, 12, that are outwardly tapered, as seen in Figs. 2 and 3. These lugs, 12, project into holes, 13, in the casting, 8. Above the lower ends of the lugs, 12, the walls of the holes, 13, are undercut to form a shoulder, 14, as seen in said figures, and in assembling the upper and lower portions, 7 and 8, together, the spaces between the lugs, 12, and the inner walls of the holes, 13, are filled with suitable material to retain the parts together; such as spelter metal; which, when it is desired to renew either of the parts, may be readily chipped out, and the portions 7 and 8 thereupon separated from each other. In this instance, we have shown two such depending lugs, 12, and corresponding holes, although the number is immaterial.

We remark that by the construction above described, the hard metal portion, 7, is maintained against displacement in either a vertical or horizontal direction, whether the latter be longitudinally or laterally of the heel block.

The outer, wide end of the heel block, 5, is beveled downwardly, as at 15, Fig. 3, to form a pick-up for the false flanges of gut-tered wheels; and the lower cast iron portion, 8, is provided with holes through which pass the bolts securing the heel block in place between the rails.

Having thus described our invention, we claim as new and desire to secure by Letters Patent:—

1. A heel block for railroad frogs and the like, comprising an upper hard metal portion and a lower portion, said upper portion being provided with downwardly projecting outwardly beveled lugs, and said lower portion being provided with holes into which said lugs project, the spaces between said lugs and the inner walls of said holes respectively being filled with spelter metal, substantially as set forth.

2. A heel block for railroad frogs and the like, comprising an upper hard metal portion and a lower portion, said upper portion being provided with downwardly projecting out-

wardly beveled lugs, and said lower portion  
being provided with holes into which said  
lugs project, the inner walls of said holes be-  
ing undercut to form shoulders above the  
5 lower ends of said lugs, and the spaces be-  
tween said lugs and the inner walls of said  
holes respectively being filled with spelter  
metal, substantially as set forth.

In testimony whereof, we have hereunto  
affixed our signatures.

BENT L. WEAVER.  
CHARLES W. REINOEHL.

Witnesses:

B. A. HANKIN,  
WM. R. MILLER.