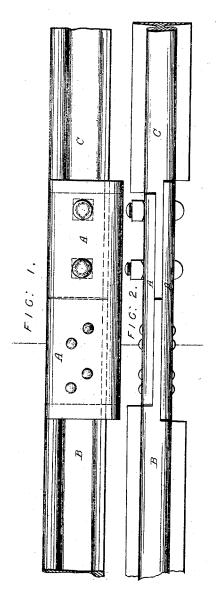
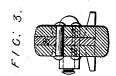
G. A. Huddart,

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ÑO. 108/142.

Palented Oct. 11. 1870.





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Anited States Patent Office.

GEORGE AUGUSTUS HUDDART, OF BRYNKIR, WALES.

Letters Patent No. 108,142, dated October 11, 1870.

IMPROVEMENT IN RAILWAY-RAIL JOINTS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, George Augustus Huddart, of Brynkir, in the county of Carnarvon, in England, have invented a new and useful Improvement in Railway-rail Joints; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

My invention relates to improvements in railwayrail joints, whereby they are efficiently supported at the same time that a continuous bearing surface is formed for the wheels of the cars or carriages in pass-

ing over them; and

The invention consists in cutting away a portion of the rails on the side and at their ends, and in providing a trough-shaped coupling, into which the tenons or reduced ends of the rails so formed are inserted, the upper edges of the trough being flush with the upper surface of the rails, as hereinafter described.

Figure 1 of the drawing represents a side view of

my improved rail-joint;

Figure 2 is a plan view; and

Figure 3 a cross-section of the same.

In carrying out my invention I use a trough-shaped coupling, A, into which the ends of the rails B and C are inserted, the one (B) being preferably permanently attached to the trough by rivet-bolts or by brazing, or otherwise, and the other being secured by bolts and nuts in the usual way. The coupling A is not wider in cross-section than the rails, and is not provided with lateral or base flanges, but necessarily

extends downward below the base of the rails, as

shown in figs. 1 and 3.

To adapt the rails to fit into the coupling, the laterally-projecting parts of the heads and bases are cut away on each side, to give them (the rails) a uniform thickness at their ends. The lips of the coupling are extended upward to and on a level with the heads or bearing surface of the rails.

I prefer to make the two sides of the trough-coupling of unequal length, so that the angles formed in paring away the rails on their opposite sides will occur in different vertical planes, and thus the strength of the rails laterally will not be materially impaired.

By this arrangement not only will a continuous bearing surface for the wheels, as they pass over the rails, be formed, but a firmer joint than can be obtained by ordinary fishing of the rails will be secured.

Having thus described my invention,

What I claim as new, and desire to secure by Let-

ters Patent, is-

The coupling A, constructed as shown and described, and so applied to the reduced ends of the rails B and C that the upper edges of its sides shall form a portion of the bearing surface of said rails, substantially as specified.

GEO. A. HUDDART.

Witnesses:

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