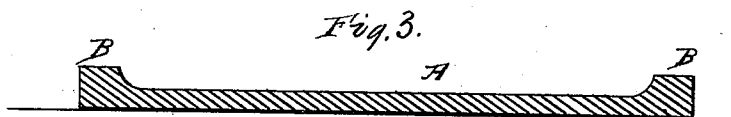
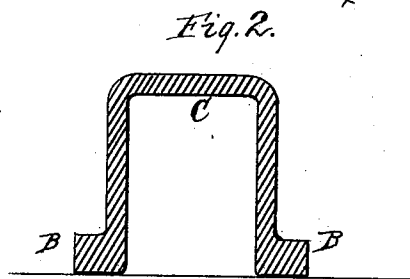
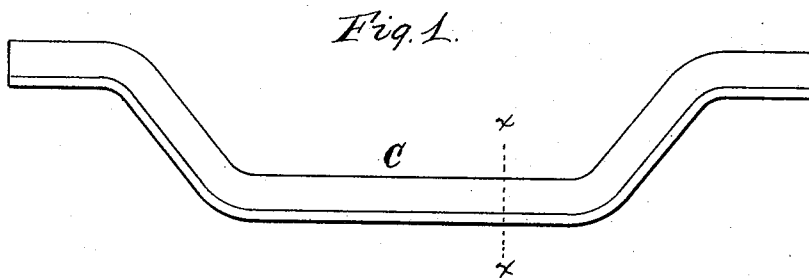


(No Model.)

S. FOX.
EQUALIZING BAR FOR TRUCKS.

No. 463,726.

Patented Nov. 24, 1891.



WITNESSES:

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INVENTOR

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BY

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HIS ATTORNEYS

UNITED STATES PATENT OFFICE.

SAMSON FOX, OF LEEDS, ENGLAND, ASSIGNOR TO THE FOX SOLID PRESSED STEEL COMPANY, OF CHICAGO, ILLINOIS.

EQUALIZING-BAR FOR TRUCKS.

SPECIFICATION forming part of Letters Patent No. 463,726, dated November 24, 1891.

Application filed November 7, 1890. Serial No. 370,661. (No model.)

To all whom it may concern:

Be it known that I, SAMSON FOX, of Leeds, England, have invented a new and useful Improvement in Equalizing-Bars for Trucks, of which the following is a full, true, and exact description, reference being had to the accompanying drawings.

In the construction of trucks for rolling-stock equalizing-bars for equalizing the strain upon two wheels from a central support are frequently employed. They consist, generally, of wrought-iron bars dropping down at the center between the axles and adapted to carry at that portion the weight of the springs, while the upper ends pass over the axle-boxes and are supported by them.

My invention consists in an equalizing-bar of pressed steel having, generally, a channel shape and preferably provided with a strengthening wearing-bead on its under surface.

My invention will be readily understood from the accompanying drawings, in which—
Figure 1 represents a lateral elevation of the completed beam; Fig. 2, a section through Fig. 1 on the line *xx*, and Fig. 3 a view of the rolled plate before pressing into the beam.

In forming my beam I take a flat plate A, preferably of steel and preferably having beads B B, Fig. 3, which is then shaped between male and female dies into the form shown in Fig. 2 and simultaneously bent into the shape shown in Fig. 1.

As will be observed, this completed beam is provided with an increased wearing-surface at its lower portion, as shown at B. Its box

shape at the upper portion, as at C, provides a suitable resting-surface for the spring-supports.

The beam itself is rigid and lighter than when made of solid wrought-iron for the same strength, and the strength of the material is put in the position where it is most desired. The vertical sides afford the necessary supporting strength, while the top plate C forms a wearing-surface, and the beads B, while adding to the strength of the sides, also furnish a substantial wearing-surface.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. An equalizing-bar for moving vehicles, consisting of a box-shaped bar of pressed steel having vertical sides connected by a top plate, the ends of the bar being bent upward at an angle and outward substantially parallel with the body of the bar, substantially as described.

2. An equalizing-bar for moving vehicles, consisting of a box-shaped bar of pressed steel having vertical sides connected by a top plate and the sides being provided with beads forming wearing-surfaces at their lower edges, the ends of the bar being bent upward and outward, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SAMSON FOX.

Witnesses:

S. O. EDMONDS,
WM. A. POLLOCK.