J. M. Wilson,

Pier.

No. 112,878. Patented Mar. 21. 1871.

Fig. 1.

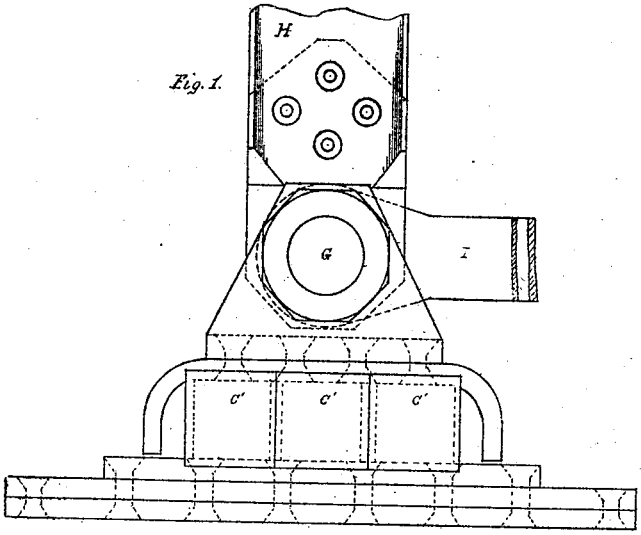


Fig. 2.

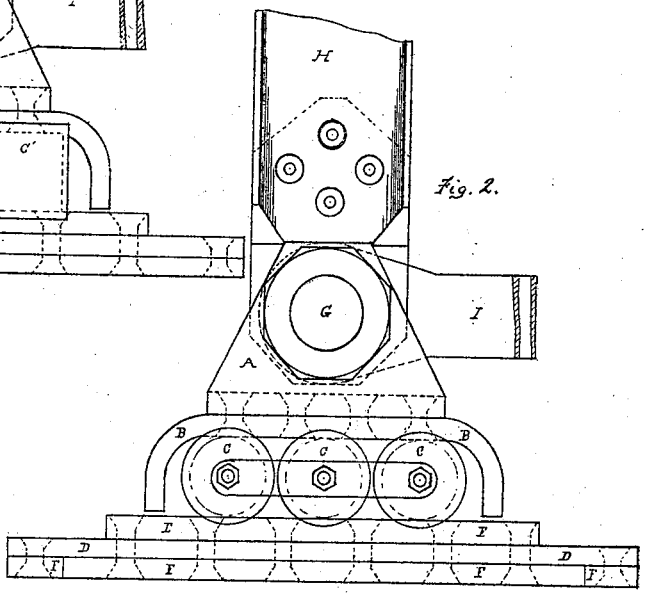
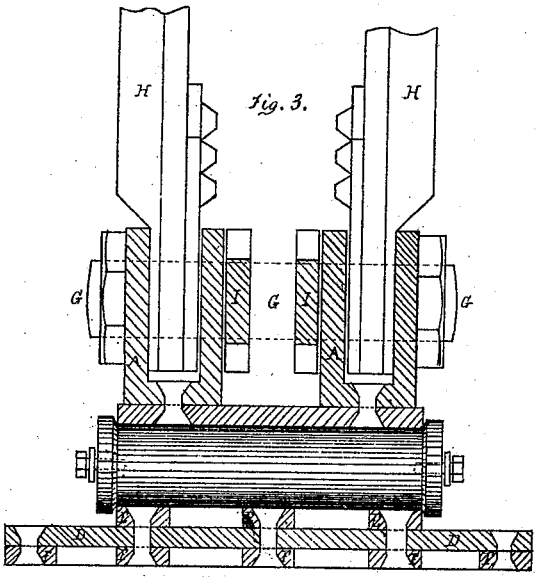


Fig. 3.



Witnesses.

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JOSEPH M. WILSON, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 112,878, dated March 21, 1871.

IMPROVEMENT IN BOLSTER-BLOCKS AND PIER OR ABUTMENT-PLATES FOR BRIDGES AND ROOF-TRUSSES.

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, JOSEPH M. WILSON, of the city and county of Philadelphia, in the State of Pennsylvania, have invented a new and useful Improvement in Bolster-Blocks and Pier or Abutment-Plates for Bridges, Roof-Trusses, &c.; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use my invention, reference being had to the accompanying drawing which forms a part of this specification, and in which—

Figures 1 and 2 are side views of my invention applied to opposite abutments, and

Figure 3, a transverse section of the same as shown in fig. 2.

The same parts are denoted by the same letters in all the figures.

I construct the plates and bolster-blocks entirely of steel or wrought-iron.

To the plate D, which rests on the pier or abutment, are bolted or riveted the strips E E F F, by which not only is the plate strengthened, but the strips E E form a railway for the rollers C C, which immediately support the bolster-block. These rollers are constructed with flanges, as shown, to prevent lateral displacement.

The lower portion B of the bolster-block I prefer to make of the arched or U-shape, shown in the drawing, and to this part B I bolt or rivet the cheeks or lugs A A, through which passes the pin G that connects the bolster-block with the post H H and chord I I, as shown.

When the invention is applied to a roof-truss the pin G is passed through the rafter and tie-beam.

The rollers C C support the bolster-block at that end of the chord or tie-beam which is to be movable, so as to permit of self-adjustment under expansion or contraction.

The bolster-block at the opposite and fixed end rests on the blocks C' C'.

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

1. The bolster-block B, constructed with cheeks or lugs A A.

2. The steel or wrought-iron plate D, in combination with the rollers C or blocks C', and with the steel or wrought-iron belster-block, constructed as shown and described.

JOS. M. WILSON.

Witnesses:
S. E. POTTER,
L. BURTT.