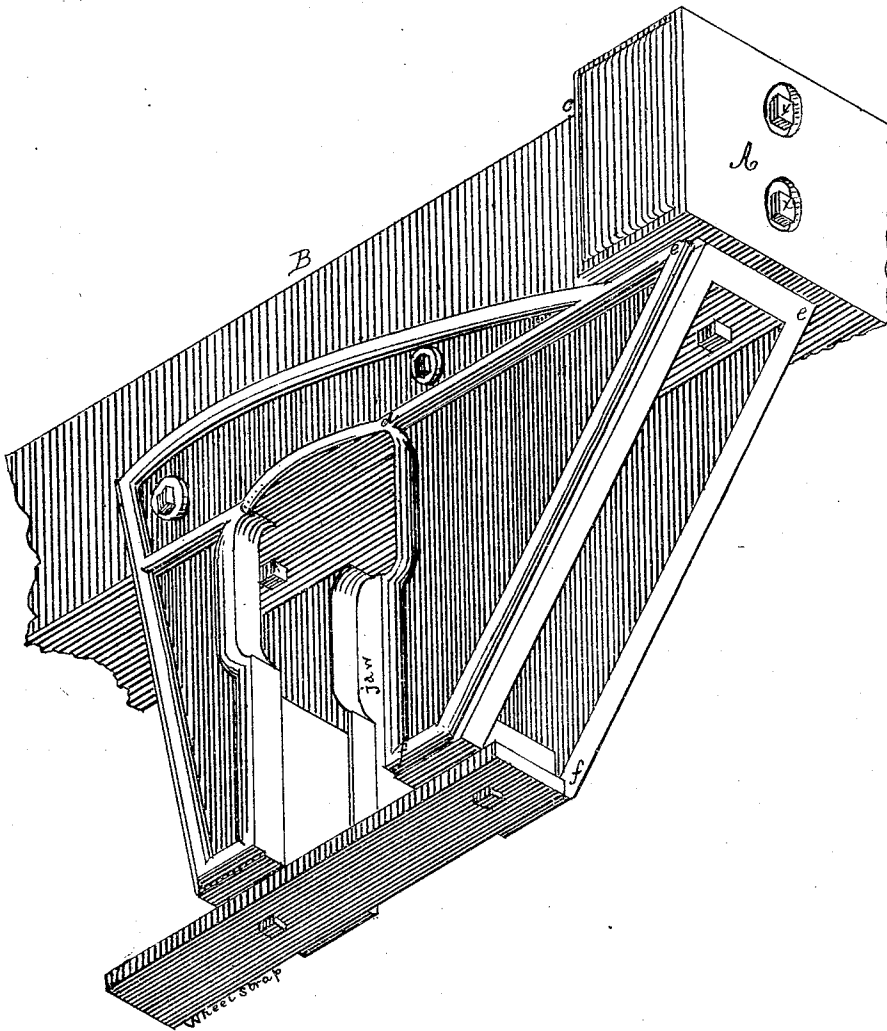


JAMES M. FOSS.

Improvement in Jaw for Dumping and Coal-Cars.

No. 128,219.

Patented June 25, 1872.



Witnesses

H. Lloyd Huston
John Haley

James M. Foss.

INVENTOR.

by his atty
Thos. W. [unclear]

UNITED STATES PATENT OFFICE.

JAMES M. FOSS, OF SAINT ALBANS, VERMONT, ASSIGNOR TO HIMSELF, MILTON G. WOOD, OF NEWTON, AND S. H. MUNSON, OF BOSTON, MASS.

IMPROVEMENT IN JAWS FOR DUMP AND COAL CARS.

Specification forming part of Letters Patent No. 128,219, dated June 25, 1872.

Specification of Improved Jaws for Dump and Coal Cars, invented by JAMES M. FOSS, of Saint Albans, in the State of Vermont.

This improvement consists in extending one of the wings of the jaw which carries the housing-box of a dump or coal car, so as to support the end-sill of a dump-car, and brace and splice the weak point of junction between the end and side sills.

In the drawing, A is the end sill of a dump-car. B is the side sill. They are mortised and tenoned together at the line *c*, and bolted. The cutting away of the wood for mortise and tenon work weakens it very much, and it is at this line *c* that dump and coal cars usually break down. The jaw in which the housing-box of the axle plays is usually placed a short distance back from the end of the side sills, so that the strain on the end sills is supported by the strength of the tenon and bolts *x x* only. The usual form of jaw is an iron casting, having the side plates before and behind the housing alike, and having a short bearing along the sill, and placed nearer the center

than the line *c*. My improvement consists in enlarging and lengthening the bearing surface of the jaw from *d* to *e*, and changing the outer or end wing of it, *e f*, so as to transmit the weight of the end sill A directly to the axle, instead of through the bolts *x x* and tenon to the side sill, and thence to the axle, bolting the jaw firmly to both sills. In this way I relieve the bolts *x x* and tenon of any other duty than that of steadying the end sill and preventing thrust, so that the strain on them comes in the direction of their length instead of across them.

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

The jaw for dump and coal cars, having one wing, *e f*, prolonged under the end sill A of the car, supporting it and transmitting its weight directly to the axle, substantially as and for the purpose described.

JAMES M. FOSS.

Witnesses:

GUY C. NOBLE,
R. CAMP.