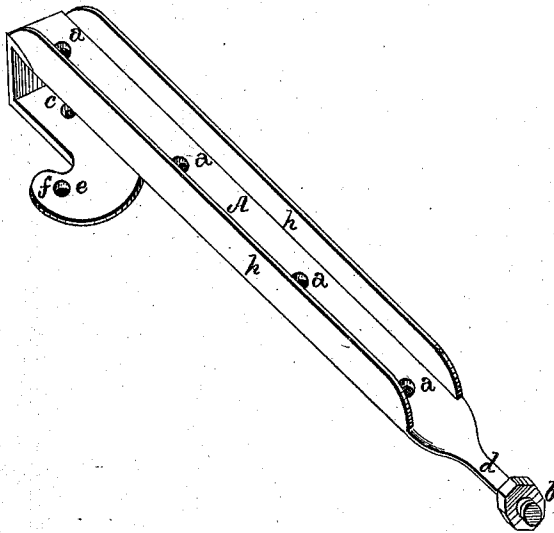


E. MILNER.

Metal Standard for Wagon Boxes.

No. 105,714.

Patented July 26, 1870.



Attest,  
*Frederick Everts*  
*Saml Spray*

Inventor,  
*Edward Milner,*  
per Attorney  
*Thos Sprague*

# United States Patent Office.

EDWARD MILNER, OF MARQUETTE, MICHIGAN.

Letters Patent No. 105,714, dated July 26, 1870.

## IMPROVEMENT IN METALLIC STANDARDS FOR WAGON-BOXES

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

### To whom it may concern:

Be it known that I, EDWARD MILNER, of Marquette, in the county of Marquette and State of Michigan, have invented a new and useful Improvement in Flanged Box-Straps for Lumber-Wagons; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon, and being a part of this specification.

The nature of this invention relates to a flanged box-strap, by means of which the sides, ends, and bottoms of wagon-boxes are secured together; and

The invention consists in an iron strap, cast or wrought, provided with a bolt and nut at its lower end, to secure the bottom, with suitable holes for screws, and a hook at the top to secure the sides, and with flanges, which form slides to receive the end boards.

In the drawing—

A represents a metallic strap, which is secured to the inner side of the side boards of a wagon-box by suitable screws or rivets through the holes *a*.

The bolt *d* projects below the side boards to pass through the bottom boards, and hold them in place by means of the nut *b*.

The hook *c*, on the top of the strap, fits over the top of the side board, and serves, with screws and bolts, to hold the side and bottom boards firmly together.

The inner face of the strap is provided with the two flanges *h*, and with the prolongation of the hook marked *e*, which has a hole, *f*, through it. The end boards slide into the grooves formed by the flanges.

To prevent the side boards from spreading, it is usual to pass a rod through them, with a nut upon one end, which, when screwed up, rests against an iron washer provided for the purpose.

The prolongation, *e*, does away with this washer, as the rod passes through the holes *f*, which have coincident holes through the side boards to receive the rod.

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

The metallic flanged box-strap A, when constructed and operating substantially as and for the purposes herein described.

EDWARD MILNER.

Witnesses:

SAMUEL J. SPRAY,  
FREDERICK EBERTS.