

J. L. MORGAN.  
Corner-Iron for Wagon-Bodies.

No. 213,924.

Patented April 1, 1879.

Fig. 1

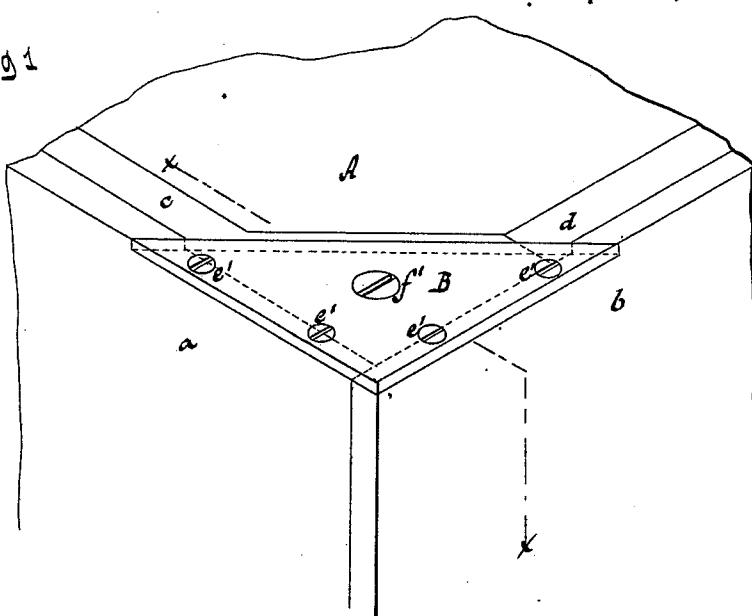


Fig. 2.

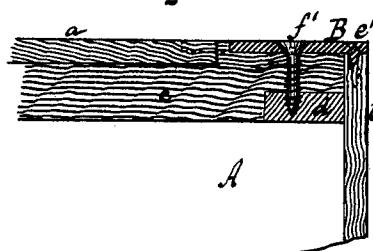
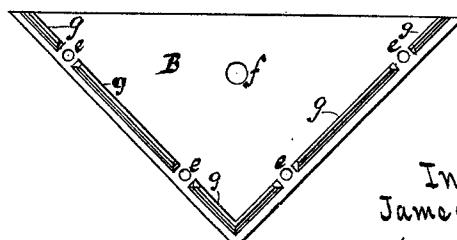


Fig. 3.



Witnesses.

Otto Steffland  
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Inventor  
James Logan Morgan.  
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his atty's

# UNITED STATES PATENT OFFICE.

JAMES L. MORGAN, OF MOUNT VERNON, NEW YORK, ASSIGNOR TO J. B. BREWSTER & CO.

## IMPROVEMENT IN CORNER-IRONS FOR WAGON-BODIES.

Specification forming part of Letters Patent No. **213,924**, dated April 1, 1879; application filed February 19, 1879.

*To all whom it may concern:*

Be it known that I, JAMES L. MORGAN, of Mount Vernon, in the county of Westchester and State of New York, have invented a new and useful Improvement in Wagon-Bodies, which invention is fully set forth in the following specification, reference being had to the accompanying drawings, in which—

Figure 1 is an inverted view of my device in perspective. Fig. 2 is a section in the plane  $x\ x$ , Fig. 1. Fig. 3 is a detached plan or top view of one of my corner-plates.

Similar letters indicate corresponding parts.

This invention consists in a corner-plate for wagon-bodies, made in the form of a triangle, and provided on its inner surface with spurs, which are adapted to take into the wood of the panels, and thus hold said panels firmly in position.

This difficulty is overcome by my invention.

In the drawings, the letter A designates a portion of a wagon-body, each corner of which is formed of the panels  $a\ b$ , a sill,  $c$ , and an end bar,  $d$ . (See Fig. 2.) These parts are united by glue or other suitable means, the sill and the end bar being mortised together, and finally a corner-plate, B, is applied, which is made in the form of a triangle, and provided with a series of screw-holes,  $e$ , near its edges, and with an additional screw-hole,  $f$ , in the middle, Fig. 3. After this corner-plate has been let into the under surface of the corner flush with the bottom surface of the wagon-body, it is se-

cured to the panels  $a\ b$  by screws  $e'$ , passing through the holes  $e$ , and to the sill  $c$  and end bar,  $d$ , by a screw,  $f'$ , passing through the hole  $f$ , so that by the corner-plate and its screws not only the panels are firmly secured to each other, but the sill and end bar are also secured to each other and to the panels, and consequently the strength and durability of the wagon-body are materially increased.

In order to give to my corner-plate a firm hold in the ends of the panels, I provide the same with spurs  $g$ , Fig. 3, which project from its inner surface, and which are made in such a shape that they bite into the ends of the panels when the corner-plate is screwed on.

My corner-plate is, by preference, made of malleable iron, and the spurs are cast solid with it; but it may be made of any other suitable material.

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

As a new article of manufacture, a corner-plate for wagon-bodies, made in the form of a triangle, and provided on its inner surface with spurs  $g$ , substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 17th day of February, 1879.

JAMES L. MORGAN. [L. S.]

Witnesses:

W. HAUFF,  
E. F. KASTENHUBER.