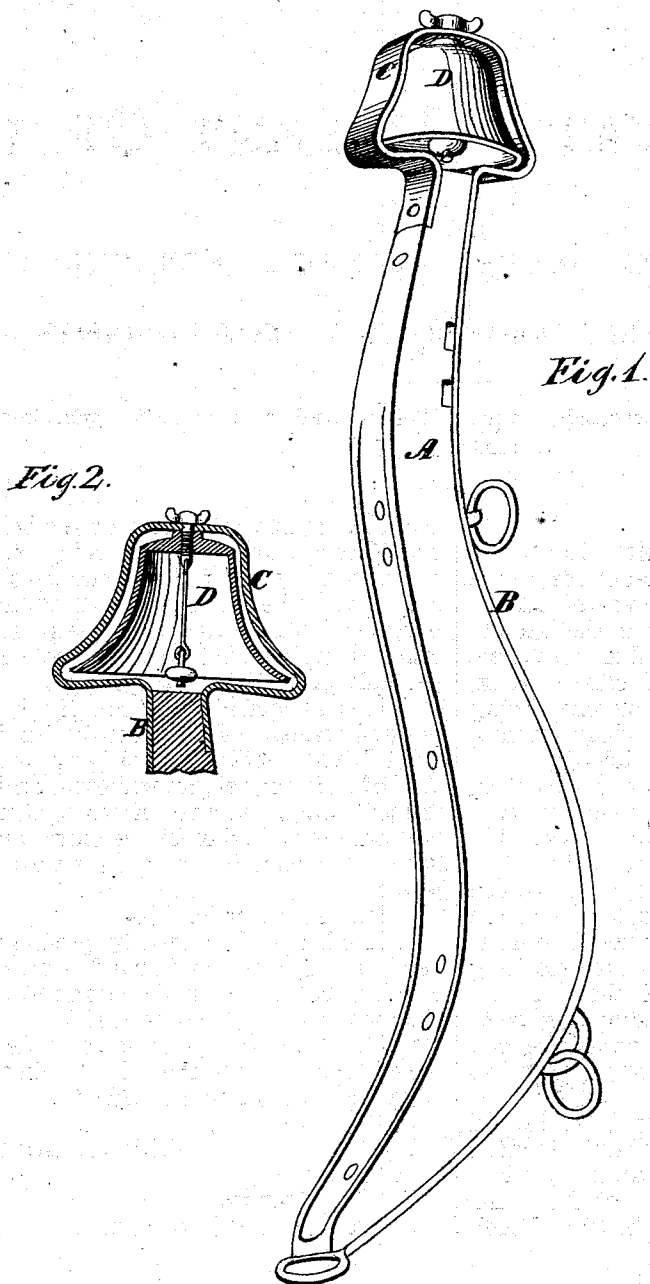


M. F. BOLAND.
Attachment of Bells to Hames.

No. 158,463.

Patented Jan. 5, 1875.



Witnesses:
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His Atty-

UNITED STATES PATENT OFFICE.

MATHEW F. BOLAND, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN ATTACHMENTS OF BELLS TO HAMES.

Specification forming part of Letters Patent No. **158,463**, dated January 5, 1875; application filed December 10, 1874.

To all whom it may concern:

Be it known that I, MATHEW F. BOLAND, of the city and county of Philadelphia, in the State of Pennsylvania, have invented certain new and useful Improvements in the Attachment of Bells to Hames; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings forming part of this specification, in which—

Figure 1 is a perspective view, representing my invention; and Fig. 2 a sectional view.

Similar letters of reference in the accompanying drawings denote the same parts.

My invention has for its object to attach bells to the hames of car-horses, &c., in a more simple, durable, and cheap manner than heretofore; and to this end it consists in extending the metallic band of the hame above the upper end of the latter, and bending it so as to form a bridge, adapted to surround the bell and hold it securely, as I will now proceed to describe.

In the drawings, A represents the hame, and B the usual metallic strap or band extending along the outer edge. The strap or band B is prolonged above the upper end of the hame, and bent into a bridge, C, preferably of such

shape as to fit the contour of the bell D, the end of the strap or band B being riveted to the opposite side of the hame, as shown in Fig. 1. The bell D is attached to the upper portion of the bridge C by a set-screw, or other suitable device, and is surrounded, and partially protected, by the bridge.

This arrangement is exceedingly cheap, simple, and strong. The expense of bending the band B, and riveting it on the opposite side of the hame, is very slight, while the bridge thus formed, being composed of wrought metal, is not liable to be broken by the blows and rough usage to which it would be naturally subjected.

I claim as my invention—

1. The bridge C, formed by prolonging and bending the metallic side band of a hame, and riveting the end of the band on the opposite side, substantially as described.

2. The bridge C, constructed as described, in combination with the bell D, substantially as and for the purpose specified.

MATHEW F. BOLAND.

Witnesses:

JOS. GWYNN,

RICHARD W. BOLAND.