

O. O. NEWBERRY.
METAL CLEAT FOR WAGON BOXES.
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Fig. 1.

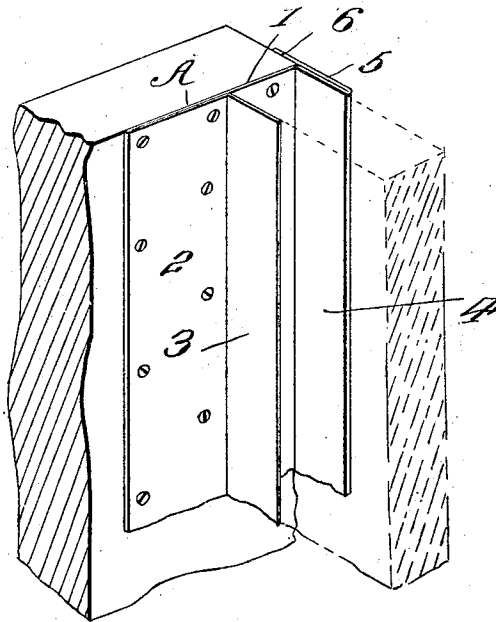


Fig. 2.

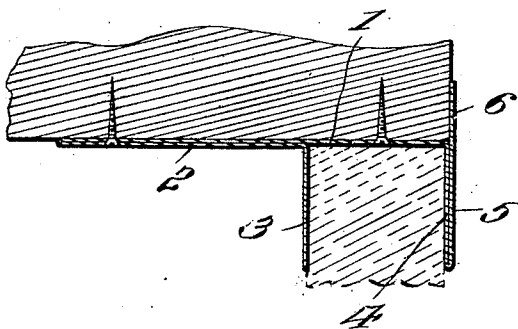
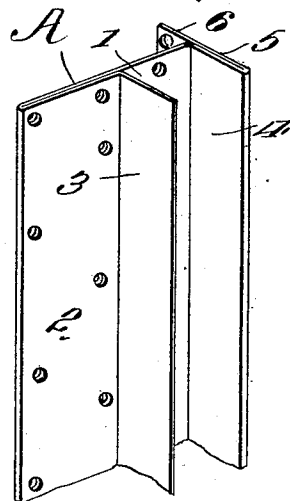


Fig. 3.



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METAL CLEAT FOR WAGON-BOXES.

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Specification of Letters Patent.

Patented Jan. 18, 1910.

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To all whom it may concern:

Be it known that I, ORSON O. NEWBERRY, citizen of the United States, residing at Argyle, in the county of Lee and State of Iowa, have invented certain new and useful Improvements in Metal Cleats for Wagon-Boxes, of which the following is a specification.

This invention comprehends certain new and useful improvements in wagon boxes, and relates particularly to an improved construction of cleat or corner iron for use at the rear ends of the side boards.

The invention has for its object to provide a metallic cleat of simple and durable construction, the use of which will effectually prevent splitting of the side boards and the consequent deterioration of the wagon body subsequent to said splitting and which will economize space in that the cleats will not take up so much room in the wagon body as the ordinary cleats of wood.

Further objects and advantages will appear more fully as the description proceeds, it being understood that various changes in form, proportions, and minor details of construction may be resorted to within the scope of the appended claim.

For a full understanding of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawings, in which;

Figure 1. is a perspective view of a corner of a wagon box provided with a cleat or corner iron constructed in accordance with my invention; Fig. 2 is a front edge view thereof; Fig. 3 is a perspective view of the cleat detached.

Corresponding and like parts are referred to in the following description and indicated in all the views of the accompanying drawings by the same reference characters.

Referring to the drawings, the letter A designates one of my improved cleats or corner irons which is preferably constructed of an integral piece of sheet metal and which embodies a body portion 1 designed to extend along the inner face of the side board, the sheet of which said cleat is formed being returned upon itself at the inner edge of the body portion and bent in contact therewith to produce a reinforced shank 2. One end of the shank is off-set in an inward direction to form a guide flange 3.

The main or body portion is itself off-set at the rear edge of the side board in an inward direction to form a complementary guide flange 4, which latter is spaced from the guide flange 3 as shown, the metal sheet forming a guide flange 4 being doubled upon itself, as indicated at 5, and extended outwardly over the rear edge of the side board so as to constitute a flange 6 which is secured to said rear edge by any suitable fastening devices. Similar fastening devices also extend through the main body portion and through the shank 2 of the sheet, in order to securely hold the cleat to the side board and at the same time hold the parts 1 and 2 securely together. Attention is here called to the fact that the guide flanges 3 and 4 are disposed parallel with each other while the inner and outer faces of said guide flanges are smooth and unobstructed throughout their entire lengths for slidable engagement with the end boards indicated in dotted lines in Fig. 1 of the drawings. It will also be noted that by bending the intermediate portion of the sheet comprising the cleat upon itself a reinforced shank is provided for attachment to the inner face of the side board, the construction of the cleat being such that the same may be readily stamped or otherwise formed from a single sheet of metal.

From the foregoing description in connection with the accompanying drawing it will be seen that there is provided a very simple construction of cleat which may be easily and cheaply formed out of a flat strip or bar of steel preferably crimped to form the parts before described, the said steel plate being either initially formed of the desired size or cut after it has been bent into the completed cleat. By the use of a plate of this character it is manifest that a strong, and durable device is constructed which may be secured to the side board by properly spacing the fastening devices so as to do away with any liability of splitting either the cleat or side board, the two-ply overturned guide flange 4, increasing the strength of the device at the place where the strain is usually the greatest.

Having thus described the invention, what is claimed as new is;—

The combination with the side and end boards of a wagon body, of a corner iron constructed of an integral piece of metal, comprising a body portion for attachment to

the inner face of the side board at the rear
end thereof, the intermediate portion of the
sheet being doubled upon itself, and said
doubled portion being extended along and
5 in contact with the outer face of the body
portion to produce a perforated reinforcing
shank, the end of which is bent upwardly at
a right angle to said shank to form a ver-
tically disposed guide flange, and in a plane
10 in advance of the rear edge of the side board,
the other end of the sheet being bent parallel
with the first named end at the rear end of
the side board and then doubled upon itself
and extended outwardly to form a two-ply
15 guide flange and extended outwardly beyond
the main body portion of the sheet and over
the rear end of the side board to form a ter-

minimal attaching lip, fastening devices ex-
tending through the attaching lip and en-
gaging the side board, and other fastening 20
devices extending through the perforations
in the shank and body portion of the sheet
for engagement with the inner face of the
side board, the guide flanges being disposed
parallel with each other and having their 25
opposite faces smooth and unobstructed
throughout their entire length for slidable
engagement with the end board.

In testimony whereof I affix my signature
in presence of two witnesses.

ORSON O. NEWBERRY. [L. s.]

Witnesses:

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W. B. NEWBOLD.