

J. WARD.  
Whiffletree.

No. 112,098.

Patented Feb 21, 1871.

Fig. 1.

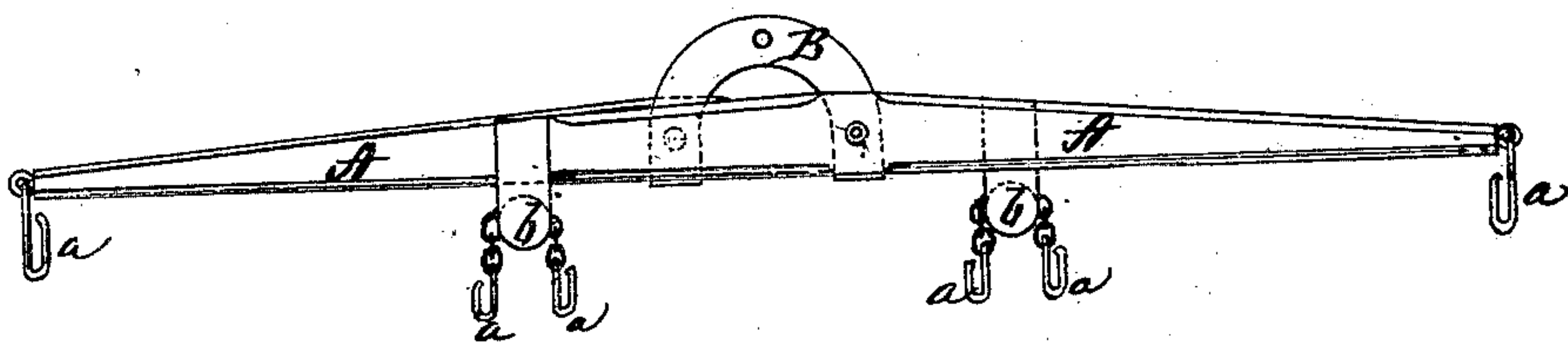
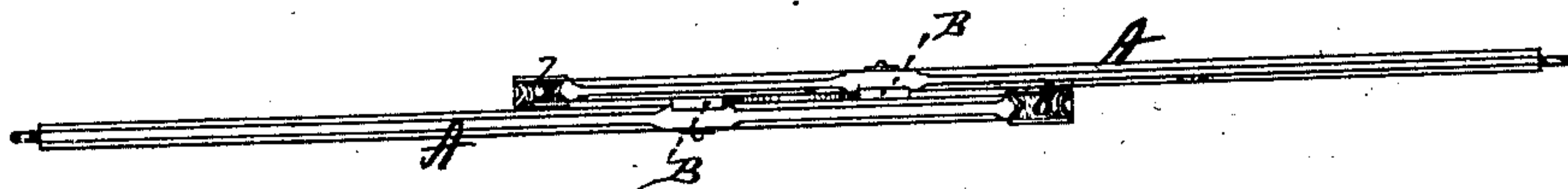


Fig. 2.



Witnesses:

*Chas. Jacobs*  
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*Per*

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# United States Patent Office.

JOSEPH WARD, OF HONEOYE FALLS, NEW YORK.

Letters Patent No. 112,098, dated February 21, 1871.

## IMPROVEMENT IN WHIFFLETREES.

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

*To all whom it may concern:*

Be it known that I, JOSEPH WARD, of Honeoye Falls, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Whiffletrees; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon, which form a part of this specification.

The nature of my invention consists in the construction and arrangement of a three-horse whiffletree," as will be hereinafter fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a plan view, and

Figure 2 is a front view of my improved whiffletree.

A A represent two eveners of suitable length attached to a plate, B, of iron bent edgewise in the shape of a half circle. This plate is placed between the two eveners, and its ends pivoted to the eveners about one-third of the distance from their large ends, said ends lapping over each other, as shown.

One evener is pivoted to the upper side of the plate and the other on the under side.

On the long end of each evener is one tug, *a*, and on the short end are two tugs equalized by a pulley, *b*, fastened by iron straps.

The mode of attaching the horses to this whiffletree, and its operation, are readily seen without further description.

I am aware that a ball has been used to connect the two bars, but when this is the case it is found that the bars rub together and get twisted. The object of my invention is to obviate this difficulty, which is effectually done by the employment of the curved plate.

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

The curved plate B, secured to and used in combination with bars A A, as and for the purpose set forth.

In testimony that I claim the foregoing as my own, I affix my signature in presence of two witnesses.

JOSEPH WARD.

Witnesses:

LOOMIS R. BROWN,  
WILLIAM BURBERRY.