

J. B. SMALL.

Improvement in Whiffletrees.

No. 128,820.

Patented July 9, 1872.

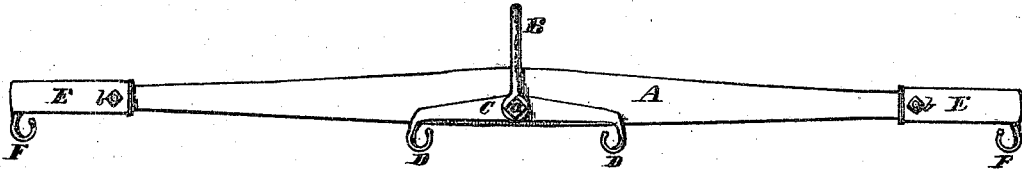


Fig. 1

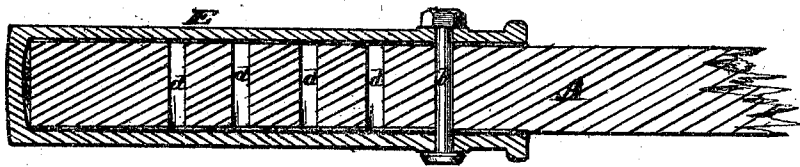


Fig. 2

Witnesses

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JOSIAH B. SMALL, OF BOSTON, MASS., ASSIGNOR TO HIMSELF, FRANKLIN F. HOLBROOK, AND THOMAS B. EVERETT, OF SAME PLACE.

IMPROVEMENT IN WHIFFLETREES.

Specification forming part of Letters Patent No. 128,820, dated July 9, 1872.

To all whom it may concern:

Be it known that I, JOSIAH B. SMALL, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Adjustable Compound Two-Horse Whiffletrees; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing which forms a part of this specification, in which—

Figure 1 represents a plan view of my adjustable compound two-horse whiffletree, and Fig. 2 represents a longitudinal section of one of the adjustable ends of the whiffletree drawn to an enlarged scale.

To enable those skilled in the art to which my invention belongs to make and use the same, I will proceed to describe it more in detail.

The nature of my invention consists in an adjustable compound two-horse whiffletree, as hereinafter described.

In the drawing, the part marked A represents the wood bar of the whiffletree, which is connected, by the pivot-bolt *a*, to the drag-loop B. A short auxiliary metallic bar, C, is also pivoted on the bolt *a* at the upper side of the wood bar A, as indicated. It is provided at its ends with trace-hooks D D, to which are secured the inner traces of the team. At the outer ends of the wood bar A are arranged metallic adjusting pieces E, on which are formed trace-hooks F, to which the outer traces of the team are attached. The adjusting pieces E are formed hollow, and are slipped over the ends of the wood bar A, where they are secured by means of bolts or pins *b*, which pass through the parts from top to bottom, as shown. A series of holes, *d*, is formed through the ends of the bar A, and the pieces E are ad-

justed by arranging the bolt or pin *b* in the different holes *d*.

My two-horse whiffletree is designed especially to be used on plows, but it may be successfully used on other implements or on vehicles. It is simple in construction, and by its use a more even and steady draft can be obtained than with the ordinary evener-bar and two whiffletrees.

It will be observed that in case the horses do not draw evenly an advantage can be given to either horse by simply extending one end of the whiffletree by means of the adjusting piece E. Another advantage is that when turning corners a much more even draft is obtained—as, for instance, in turning to the left the strain is naturally brought onto the right-hand traces; this causes the right-hand end of the bar A to swing forward, and also the left-hand end of the bar C, which action shortens the left-hand trace and lengthens the right-hand trace of each horse, and thus equalizes the draft in a very perfect and satisfactory manner. Then again, if it be desired to throw the plow to land when one horse is walking in the furrow, it can be easily effected by simply moving out the adjustable pieces E, or vice versa. The bolts *b* may be provided with thumb-nuts, if preferred.

Having described my improved adjustable compound two-horse whiffletree, what I claim therein as new and of my invention, and desire to secure by Letters Patent, is—

The combination, with the main bar A and auxiliary bar C, of the adjustable end draft pieces E, substantially as and for the purposes set forth.

Witnesses: JOSIAH B. SMALL.
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