

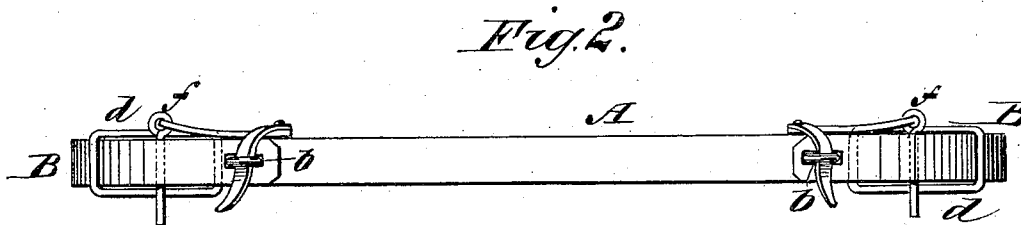
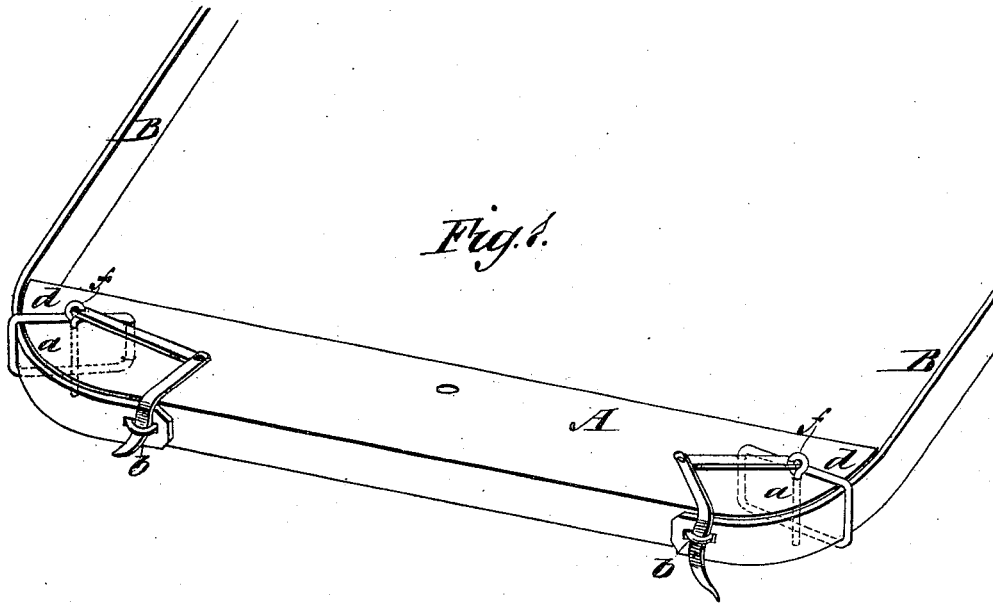
(Model.)

M. D. L. & J. M. HARTLEY.

SINGLE TREE.

No. 266,469.

Patented Oct. 24, 1882.



WITNESSES:

Francis McArthur,
C. Sedgwick

INVENTOR:

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UNITED STATES PATENT OFFICE.

MARQUIS D. L. HARTLEY AND JAMES M. HARTLEY, OF SAN DIEGO, CAL.

SINGLE-TREE.

SPECIFICATION forming part of Letters Patent No. 266,469, dated October 24, 1882.

Application filed August 15, 1882. (Model.)

To all whom it may concern:

Be it known that we, MARQUIS D. L. HARTLEY and JAMES M. HARTLEY, both of San Diego, in the county of San Diego and State of California, have invented a new and useful Improvement in Single-Trees, of which the following is a full, clear, and exact description.

The object of our invention is to furnish a single-tree for use in horticultural operations—such as the cultivation of trees—and which may be used without liability of injuring the trees, as is the case with the ordinary single-tree.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a perspective view, and Fig. 2 a rear elevation, of our improved single-tree.

A is the single-tree, the same being a bar of suitable length and width, and formed with its ends *a* rounded at the rear side.

b b are hooks, of any suitable character, fitted upon the rear side of the single-tree for attachment of the traces *B B*. These hooks *b* are attached at such a point that the traces, when fastened in place, cover the rounded ends of the bar, and so that the irons of the traces, in case there be any, are held at the rear, where they are not liable to come in contact with the trees.

d d are loops of iron, pivoted upon the single-tree and extending around the traces, so as to hold them in place upon the rounded ends. These loops are placed in such a position that they may be swung back free from the traces, so as to allow of their being put in place and removed. The loops *d* are held in place by keys or pins *f* inserted through the single-tree.

In using this single-tree in the cultivation of trees there is nothing that can come in contact with the trees, except the leather of the traces, which will do no injury.

I am aware that it is not new to make a single-tree with rounded ends which are covered by the traces; but

What I do claim as new and of my invention is—

The pivoted loops *d* and keys *f*, combined with the end-rounded single-tree to allow the loops to be swung into position to hold the traces, or to prevent their removal, or to permit their attachment, as described.

MARQUIS D. L. HARTLEY.
JAMES M. HARTLEY.

Witnesses:

J. D. FERRELL,
C. K. SMITH.