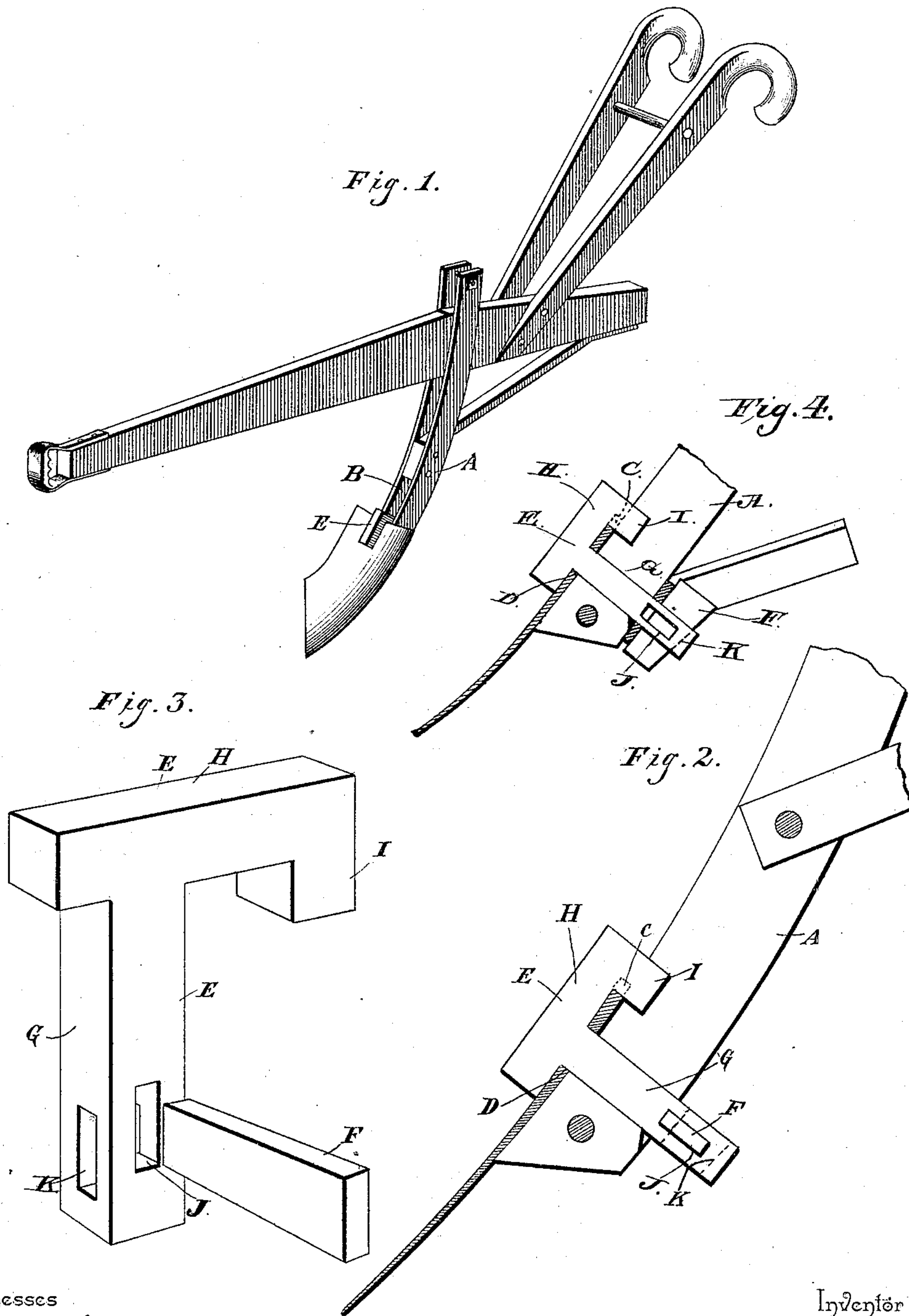


(No Model.)

W. J. MERCER.
PLOW FASTENER.

No. 422,028.

Patented Feb. 25, 1890.



Witnesses

J. M. Witherow,

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WILLIAM JUDSON MERCER, OF HOMER, LOUISIANA.

PLOW-FASTENER.

SPECIFICATION forming part of Letters Patent No. 422,028, dated February 25, 1890.

Application filed July 10, 1889. Serial No. 317,018. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM JUDSON MERCER, a citizen of the United States, residing at Homer, in the parish of Claiborne and State of Louisiana, have invented a new and useful Plow-Fastener, of which the following is a specification.

My invention relates to improvements in plow-fasteners; and it consists in certain novel features hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a perspective view of a plow provided with my improvements. Fig. 2 is a view showing the plow-standard and the plow-shovel in section and the fastening device in elevation. Fig. 3 is a detail perspective view of the fastening device. Fig. 4 is a vertical sectional view showing a shovel and heel-sweep attached to a plow-standard by my improved fastening device.

The plow-standard A is of the usual construction and has a longitudinal slot B, while the plow-shovel may be of any desired shape or size, and is provided at its upper end with a notch C and a short distance below said notch with an opening D.

My improved device consists of the locking-bar E and the wedge or key F. The locking-bar is substantially T-shaped, having the shank G, adapted to pass through the opening D of the plow-shovel and the slot B of the standard, and the cross-head H, adapted to rest against the front side of the plow-shovel, and provided with a lip I, adapted to engage the notch C and enter the slot of the standard.

The shank G is provided near its end with the openings J K, passing through its body at right angles to each other and one slightly in advance of the other longitudinally, and the wedge or key F is adapted to pass through one of these openings to secure the locking-bar in position.

The construction and arrangement of my improved device will be readily understood from the foregoing description, and the advantages of the device are thought to be obvious. The locking-bar is inserted through the plow-shovel and the standard, as shown and described, and the key is then passed through the transverse opening J, and bears on the rear side of the standard. The wedge shape of the key causes it to draw the lock-

ing-bar rearward, and thereby firmly clamp the plow-shovel to the standard. When a heel-plate or heel-sweep is used, it is slipped over the rear end of the shank of the locking-bar, and the key is then inserted through the opening K, so as to bind against the rear side of the heel-plate and clamp the heel-plate and the shovel to the standard. The distance between the longitudinal disposition of the slots J and K is such as to compensate for the added thickness of the heel-sweep.

The shovel is effectually prevented from rotating by reason of the shank of the locking-bar passing through the opening D therein and the lip at the upper end of the locking-bar engaging the notch in the upper edge of the shovel.

The device is very simple and can be manufactured and sold at a slight cost.

It will be observed that the standard is composed of parallel plates having flat inner faces and that the locking-bar is angular in its formation and adapted to fit snugly between the said plates. The shovel will thus be effectually prevented from turning upward or to one side without the use of additional securing means or necessitating a peculiar construction of the standard. It will also be noticed that the locking-bar is provided with two openings for the wedge, so that the wedge may be inserted either vertically or horizontally, as one or the other may prove most convenient and effective.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

The herein-described plow-fastening device, comprising an angular T-shaped locking-bar provided at one end of its head with an angular lip, and the shank of said locking-bar being provided with openings at right angles and one slightly in advance of the other, in combination with a wedge adapted to pass through either of said openings, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

WILLIAM JUDSON MERCER.

Witnesses:

J. R. RAMSEY,
W. F. BRIDGES.