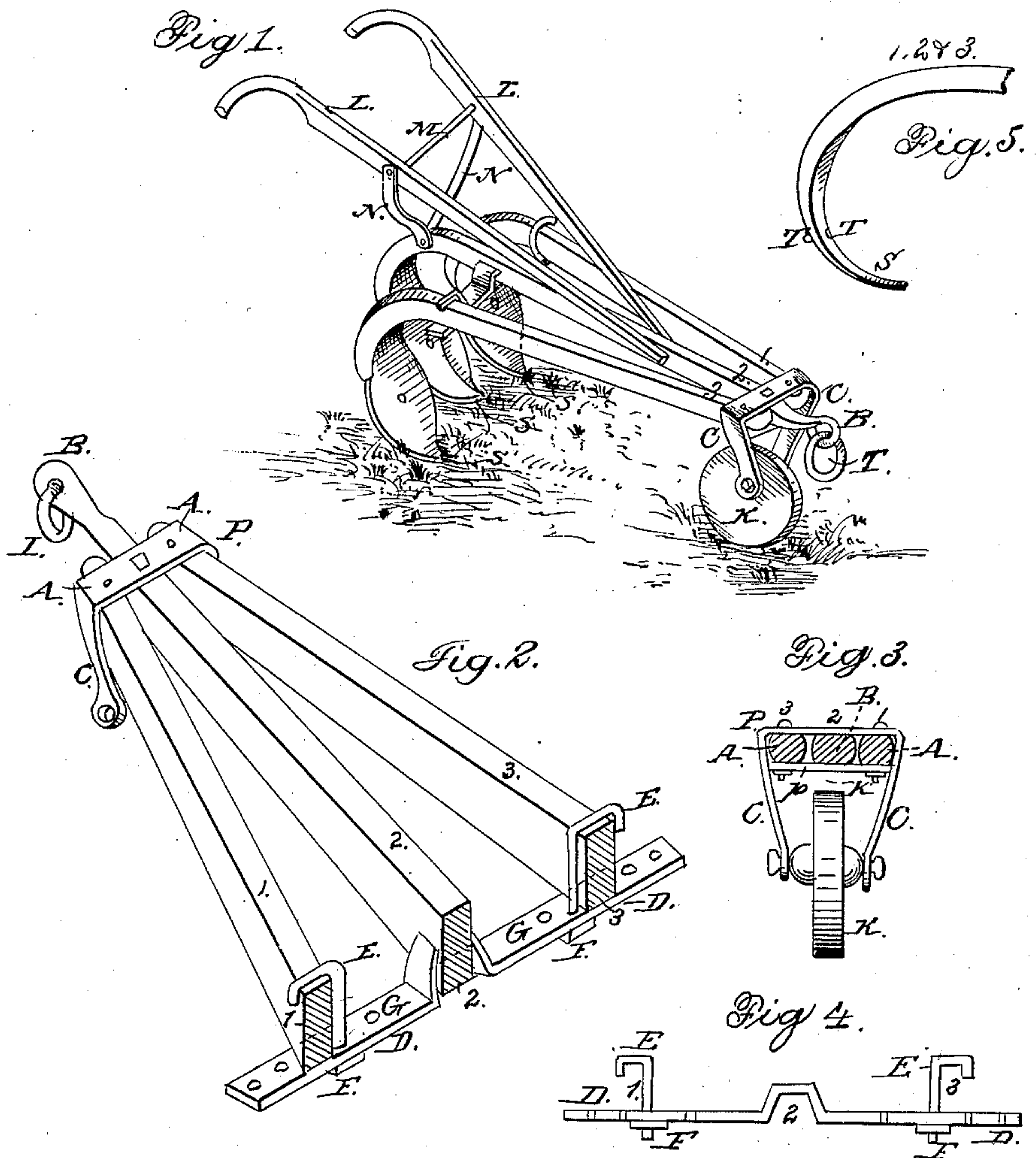


J. FRIDY.

Cultivator.

No. 58,805.

Patented Oct. 16, 1866.



WITNESSES:

Wm B. Miley.
Jacob Stauffer

INVENTOR;

John Fridy

UNITED STATES PATENT OFFICE.

JOHN FRIDY, OF WEST DONEGAL TOWNSHIP, LANCASTER COUNTY, PA.

IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. 58,805, dated October 16, 1866.

To all whom it may concern:

Be it known that I, JOHN FRIDY, of West Donegal township, in the county of Lancaster and State of Pennsylvania, have invented certain Improvements on Wrought-Iron One-Horse Cultivators, now extensively in use; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of the cultivator. Fig. 2 is a perspective view of my device for adjusting the side beams; Fig. 3, a front elevation of the bearings of the wheel K and pivots A and bearings of the shovel-beams 1, 2, and 3; Fig. 4, a profile view of the adjustment-bar D, with the hook-bolts E; Fig. 5, a profile view of one of the double-pointed reversible shovels, s, on a pivot-bolt, T, to the hook or rear end of the beams. (These hooked ends are not shown on Fig. 2.)

The object of my invention is to obviate the objection to the manner the beams have heretofore been connected in front, and the difficulty in making adjustments so as to be firm and available in new land, besides in combining the utility of the double-pointed reversible shovels and the front pulley or wheel, and adopting such a mode for its bearing that, while it affords great steadiness, it answers, at the same time, as an upper bearing for the pivots and central bolt of the shovel-beams 1, 2, and 3.

The drawings, Figs. 3 and 4, illustrate my improvements, and can be readily understood and made by any one skilled in the art so as to use my invention.

The rear adjustment-bar D is first passed through a slot in the center beam, 2, and bent down on the sides, so that the top of the bar D comes on a level with the bottom of the side beams, 1 and 3, and is thence carried out straight on both sides for the bearings of the said side beams. This bar is perforated with holes G at regular intervals, on both sides from the center, for the reception of a bolt, E, having a right-angled hook at the upper end to embrace the top of the side beam, being provided at the lower end with a screw-thread for a nut, F, as shown. The central beam, 2, being fixed in the adjustment-bar behind, is also affixed by a bolt to the center of the band

P, covering the anterior ends of the beams 1 and 3 on top. There is also a bottom plate or bearing, p, bolted thereto.

The side beams, 1 and 3, rest upon the lower plate, and are each held by a pivot, A, between said top and bottom plate, P p, and have their motion on said pivots.

The upper band, P, is carried down on the sides of the outer beams, 1 and 3, so as to form the bearings for the wheel K, the central beam, 2, being prolonged to a ring-handle, B, for a hitching-ring, I.

Thus it will be seen that, by changing the hook-bolts E from one hole to another, the beams 1 and 3 will readily yield on the pivot A in the front band and lower bearings, and will enable a person to make the adjustment with ease, and, when made, be perfectly firm and unyielding.

These improvements, in combination with the use of the double-pointed and reversible shovels s, held on a pivot-bolt, T, and the front wheel, K, altogether furnish an implement of the greatest utility, and one of peculiar adaptation for numerous uses on the farm.

I am aware that patents and rejected cases in the Office show the reversible shovel-points, as also adjustable beams, and the bearing-wheel in front, nor do I claim such as my invention; but I am not aware that my mode of adjustment has ever been known or used before—that is, the adjustment-bar and hook-bolts, constructed as shown and specified, with side beams moving on a pivot in front of the band, constituting at the same time the bearings for the wheel, in the manner specified, a mode which affords great steadiness and at the same time is simple, strong, and durable.

What I claim as my invention, and desire to secure by Letters Patent, is—

The construction of my adjusting-bar D, fixed in its center to the central beam, 2, and provided with a series of holes, G, for the hook-bolts E, supporting and embracing the side beams, 1 and 3, in combination with the pivots A, when supported between the plates P and p, in the manner and for the purpose shown and specified.

JOHN FRIDY.

Witnesses:

WM. B. WILEY,
JACOB STAUFFER.