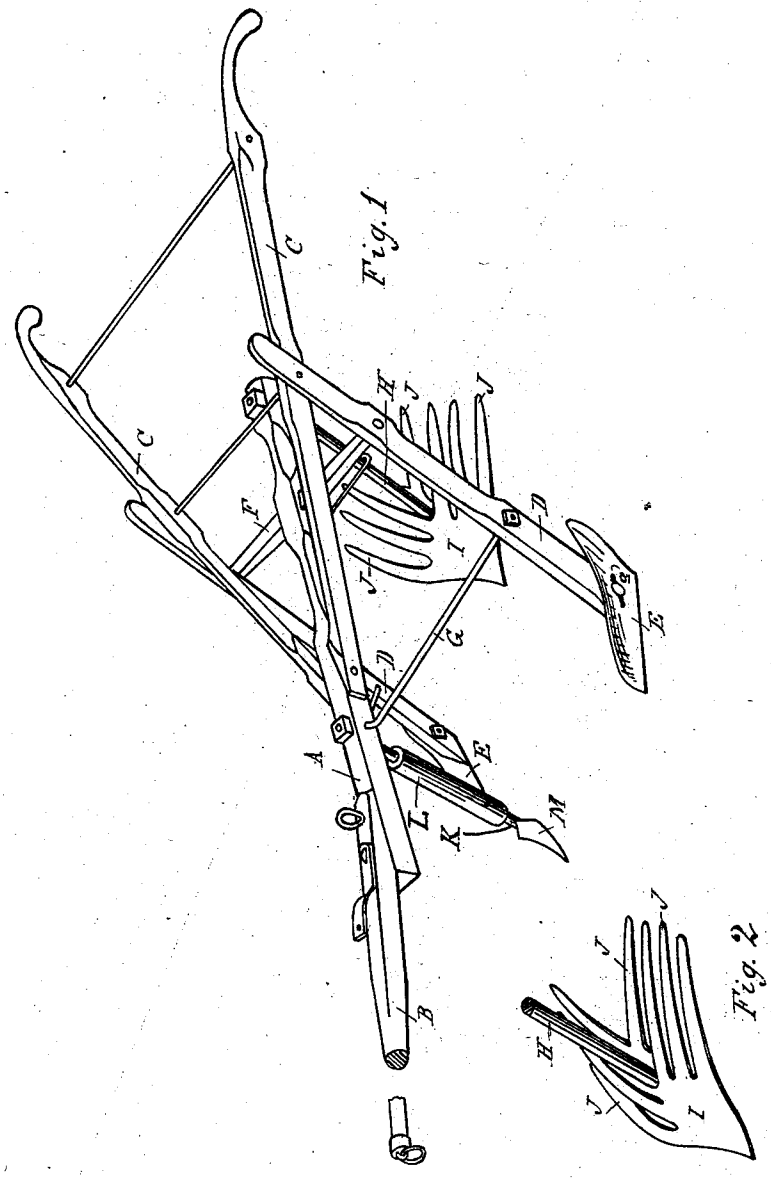
(No Model.)

S. D. BROWN.

POTATO DIGGER.

No. 298,064. Patented May 6, 1884.



Attest
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UNITED STATES PATENT OFFICE.

STEPHEN D. BROWN, OF FARMINGTON, MICHIGAN.

POTATO-DIGGER.

SPECIFICATION forming part of Letters Patent No. 298,064, dated May 6, 1884.

Application filed December 19, 1883. (No model.)

To all whom it may concern:

Be it known that I, STEPHEN D. BROWN, of Farmington, in the county of Oakland and State of Michigan, have invented new and useful Improvements in Potato-Diggers; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to certain new and useful improvements in the construction and operation of that class of agricultural implements employed for digging potatoes, by means of which very perfect results are obtained with very little labor.

The invention consists in the peculiar construction of parts, their combination and operation, as more fully hereinafter described.

Figure 1 is a perspective of my improved potato-digger. Fig. 2 is a detached view of the digging-shovel proper and its slatted divider attachment.

In the accompanying drawings, which form a part of this specification, A represents the center draft-bar, to which the tongue B, the handles C, and the standards D, which carry the plows E, are attached, the standards being supported by the cross-bar F, and at their upper ends by the handles, in any convenient manner. Braces G extend from the center draft-bar to the lower portion of the standards, as shown. The plows E are attached—one to each standard—by means of a suitable bolt through each and its standard, and to make these plows adjustable back and forth this bolt passes through a slot, *a*, in the plow, and these being set inclined to each other, as shown, enables the operator to so arrange them that they will cut at any desired or necessary distance from the row of potato-hills being operated upon, and thereby greatly lessen the work of the digger proper.

H is a standard supported from and below the rear end of the center draft-bar, and has secured to its lower end the digging-shovel I, which may be properly called a "double shovel-plow," with wings projecting from either side of the point, so that as the latter is forced into and under the hill it lifts, divides, and carries the same upward and rearward to the fingers J, which project diagonally upward, rearward, and outward on each side, as shown.

K is another arm or standard, secured to and beneath the center draft-bar and near its forward end. Upon this arm is sleeved a cylinder, L, immediately above the double point or tooth M. This cylinder revolves loosely upon the standard K.

In operation the forward end of the tongue engages with a ring in the neck-yoke of the team, which latter is attached to the device in the usual way, and such ring forms a fulcrum or rest, which enables the operator to easily govern the depth of his work by bearing or lifting upon the handles, as circumstances may require. The tooth M first enters the ground, and in the forward progress of the device partially cuts the tops and weeds, and the rotation of the cylinder caused by its contact with the earth, tops, &c., in the further advancing movement of the machine, throws them to one side. The side plows then follow, cutting the earth and weeds close to the row and throwing them to one side, leaving the digger to follow and open the hill. The hill thus opened passes upward and outwardly to the fingers, the weeds, large clods of earth, and stones being thrown off at the sides, while the potatoes pass through the fingers, behind which there may be secured a rake or other device for gathering them, if desired.

What I claim as my invention is—

In a potato-digger, the combination of the center draft-bar, A, handle C, standards D, having their upper ends attached to said handles, and braced by the cross-bar F and braces G, both of which are connected to the center draft-bar, standard K, attached to said bar A, and carrying the cylinder L and tooth M, side plows, E, adjustable back and forth on the standards D, and the double-winged digger-shovel I, carried by the standard H, attached to the rear end of the bar A, all constructed and arranged substantially as herein shown and described.

S. D. BROWN.

Witnesses:
H. S. SPRAGUE,
CHARLES J. HUNT.