No. 820,635. PATENTED MAY 15, 1906.

C. A. FOX.

ORCHARD PLOW.

APPLICATION FILED OCT. 9, 1905.

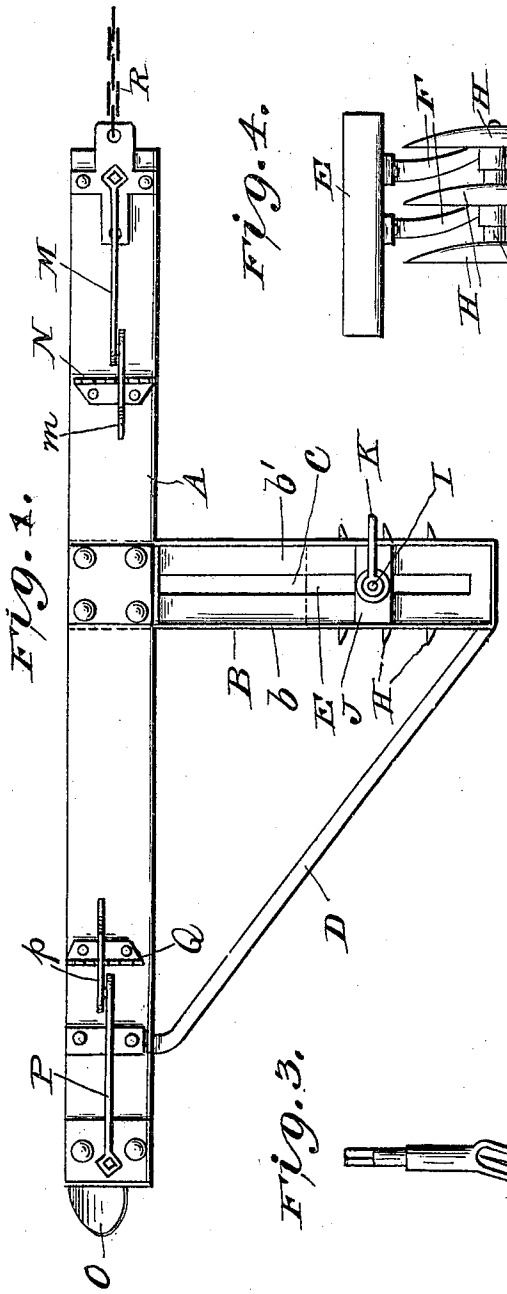

Fig. 1.

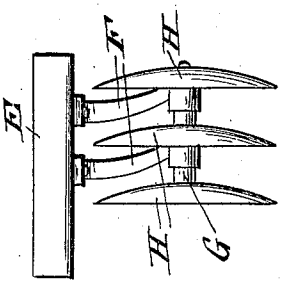

Fig. 4.

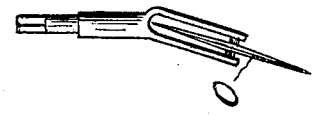

Fig. 3.

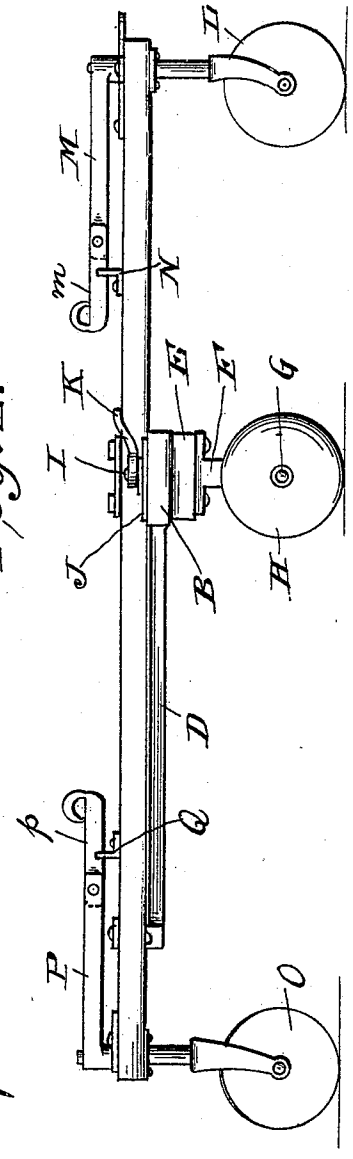

Fig. 2.

Witnesses

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UNITED STATES PATENT OFFICE.

CHARLES A. FOX, OF HANFORD, CALIFORNIA, ASSIGNOR OF ONE-HALF TO ALEXANDER V. TAYLOR, OF HANFORD, CALIFORNIA.

ORCHARD-PLOW.

No. 820,635. Specification of Letters Patent. Patented May 15, 1906.

Application filed October 9, 1905. Serial No. 282,032.

To all whom it may concern:

Be it known that I, CHARLES A. FOX, a citizen of the United States, residing at Hanford, in the county of Kings and State of California, have invented certain new and useful Improvements in Orchard-Plows, of which the following is a specification.

My invention relates to plows for use in orchards when it is desired to break up the ground close to the tree-trunks, but at the same time to prevent breaking the twigs and limbs of the tree by having the draft-animals pass thereunder.

The invention consists of a plow of novel construction and combination of parts designed for the purpose stated, and will be particularly described hereinafter and illustrated in the accompanying drawings, in which—

Figure 1 is a top plan view of my improved orchard-plow; Fig. 2, a side view; Fig. 3, a view in elevation of the rear steering-disk or tiller-wheel, and Fig. 4 a detail view of the plow-disks.

In the drawings similar reference characters indicate corresponding parts throughout the several views.

A represents the plow-beam, having secured thereto a cross-beam B, made of angle-iron shaped to form a slotted beam by bending it as shown in the drawings, the vertical flange *b* being on the outside, while the horizontal flange *b'* is spaced apart so as to form the slot C.

D represents a brace secured to the end of cross-beam B and to beam A behind said cross-beam.

E represents a block having secured thereto downwardly-projecting arms F, in which is journaled a short shaft G, having plow-disks H secured thereto.

I represents a stud-bolt secured to block E, J a block adapted to seat in beam B, having a hole therethrough to receive stud-bolt I, and K a tail-nut securing the parts together, it being understood that the block E may be adjusted lengthwise on beam B and that the disks may be secured at any angle to the draft desired, as well as arranged to throw the soil toward or from the beam A.

L represents a disk secured to the front of the beam and revoluble therein, being adjusted by means of lever M, so that the direction of the rotation thereof may be straight ahead or to either side, as desired, said lever being temporarily locked in the position desired by means of its hinged end *m*, engaging notches in the rack-bar N. O represents a disk at the rear end of the beam A, also revolubly mounted therein by means of lever P, the direction of travel of the disk being regulated by means of notched bar Q and hinged end *p* of said lever P. In order to prevent the rear end of beam A from swinging away from the side from which extends cross-beam B, or, in other words, to keep said beam A directly behind the draft, I set the disk O so that it is at an angle to the perpendicular, as shown.

R represents a short chain or other suitable draft connection secured to the forward end of the beam A.

Having thus described my invention, what I claim is—

1. In an orchard-plow, a beam, a cross-beam secured thereto and extending laterally from one side thereof, the plowshare secured to said cross-beam, and guiding-disks secured adjacent to the ends of said beams, one of said disks being set at an angle to the perpendicular, substantially as shown and described.

2. In an orchard-plow, a beam, a slotted cross-beam secured thereto and extending laterally from one side thereof, the plowshare secured to said cross-beam and adjustably mounted in the slot thereof, and guiding-disks secured adjacent to the ends of said beams, one of said disks being set at an angle to the perpendicular, substantially as shown and described.

3. In an orchard-plow, a beam, a slotted cross-beam secured thereto and extending laterally from one side thereof, a block having a screw-bolt secured thereto and adapted

to be secured in the slot in said cross-beam, arms secured to said block, a shaft journaled in said arms, and disks secured to said shaft, a disk secured adjacent to each end of the beam and revolubly mounted therein, a lever for adjusting the direction of travel of each disk, and notched bars to receive the ends of said levers and lock them in adjusted positions, the disk at the rear of the beam being set at an angle to the perpendicular, substantially as shown and described.

In testimony whereof I hereto affix my signature in the presence of two witnesses.

CHARLES A. FOX.

Witnesses:
E. T. COSPER,
C. L. SCOTT.