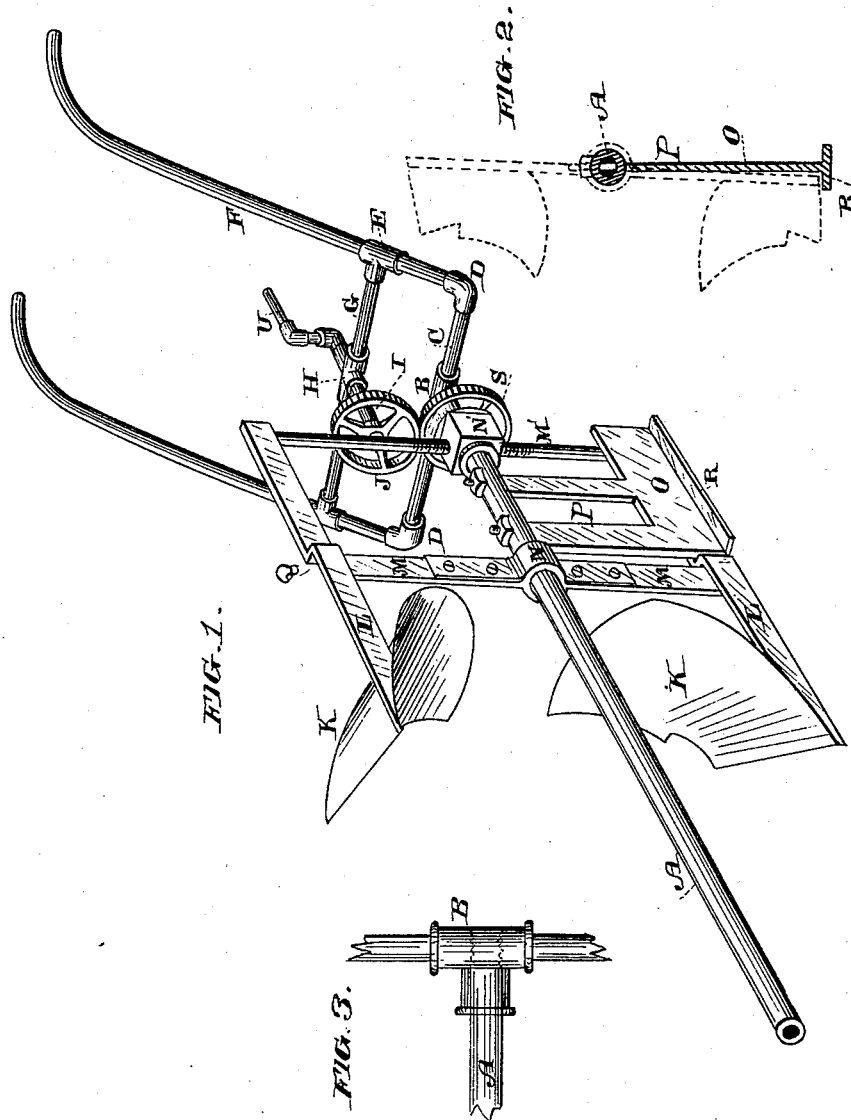


(No Model.)

A. H. FITCH.  
REVERSIBLE PLOW.

No. 303,715.

Patented Aug. 19, 1884.



Witnesses,  
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# UNITED STATES PATENT OFFICE.

ALFRED HENRY FITCH, OF SANTA CRUZ, CALIFORNIA.

## REVERSIBLE PLOW.

SPECIFICATION forming part of Letters Patent No. 303,715, dated August 19, 1884.

Application filed May 1, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, ALFRED H. FITCH, of Santa Cruz, in the county of Santa Cruz and State of California, have invented an Improvement in Reversible Plows; and I hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to a reversible plow, in the construction of which I obtain cheapness, lightness, and strength.

It consists in the peculiar construction of a beam, handles, and frame-work, the beam forming an axis upon which the plow-standards are journaled, and about which the plows revolve when reversed, gears and a crank or lever arm by which the plows may be reversed, supporting and adjusting mechanism, all of which will be more fully explained by reference to the accompanying drawings, in which—

Figure 1 is a view of my plow. Fig. 2 is a transverse section. Fig. 3 is a detail of construction.

A is the beam of my plow, which is a straight tube of steel or iron of sufficient diameter and strength for the purpose. At the rear end this tube is screwed into a T-coupling, B, and short tubes C are screwed into the two ends of the transverse part of the T. These tubes have elbows D upon their outer ends, from which other short tubes extend up to the T's E. From these the handles F extend up and are bent backward in a suitable curve, as shown, and may have knobs or handles upon their outer ends. Short tubes G extend from the T's E to a central cross, H, which serves as a box for the shaft I of the gear-wheel J, as will be hereinafter described.

K K are two plows with landsides L and standards M M' bolted to them and extending toward the beam and shaft A, where they are fixed to boxes or hubs N N', which turn upon the shaft A.

O is a permanent or fixed landside with standards P, which pass through or are otherwise fixed rigidly to the beam A. This landside O is made short and thin, and the landsides L have an angle, Q, made in them, so that when either of these is turned down against the landside O their front part will be in line with and form a continuation of the stationary landside O. The stationary landside has a shoe, R, projecting each side along

the bottom, and the rear part of the landsides L shuts in over this shoe, which thus prevents dirt from being forced up between the two. 55

In order to rotate the plows, about the beam A to reverse and bring either one up at pleasure, a gear-wheel, S, is fixed to the hub or box which receives the rear standards of the plows, and the gear-wheel J, before described, engages it. The outer end of the shaft I of this gear J has a crank or lever-arm, U, fixed to it, by means of which the gear is revolved and its motion communicated to the plows to reverse them. The plows are fixed in either position by a pin through the shaft I, or the hub N, or by other suitable devices. 60 65

In order to adjust the plows so that the points will take more or less ground, the rear standards, M', of the plows have screw-threads formed on their upper ends, and these screw into the hub or box N'. By removing the bolt, which secures the lower end of the standard to its landside, the upper end may be screwed in or out of the hub N', the front standard remaining stationary and forming a fulcrum about which the landside turns, and the point may thus be tilted up or down at will. 75

If it is desired to make a single right or left stationary plow, one of the plows with its standard may be removed, and the other secured by bolts or otherwise to the fixed landside O. 80

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is— 85

1. The reversible plows K, connected with boxes or hubs, which turn upon the horizontal beam A, the landsides having the angular bend Q, and the stationary landside O, fixed to the beam by standards, so that the movable ones will fit and be supported by it, as herein described. 90

2. The plows K, connected with boxes or hubs, which turn upon a horizontal beam, by standards N N', one of which serves as a fulcrum, while the other is screw-threaded or made to be lengthened or shortened to raise or lower the point of the plow, substantially as herein described. 100

3. The plows K, connected with boxes or hubs, which turn upon a horizontal beam, by standards N N', so that one of the standards may be lengthened or shortened to raise or

lower the plow-point and the fixed landside O, against which the movable one is supported, substantially as herein described.

4. The right and left plows K, connected by  
5 removable standards with a horizontal beam, about which they may move to reverse them, and having landsides with an angular bend, Q, together with a fixed landside, O, to which  
10 either of the plows may be fixed or supported to plow a right or left furrow, substantially as  
herein described.

5. The right and left plows connected by standards with a horizontal beam, about which they may turn to reverse them, and having

landslides L, as shown, together with the sta- 15  
tionary landside O, against which either of the landsides L may be supported from opposite sides, an angular bend on said landside, and a shoe, R, projecting upon each side of the stationary landside, substantially as here- 20  
in described.

In witness whereof I have hereunto set my hand.

ALFRED HENRY FITCH.

Witnesses:

S. H. NOURSE,  
H. C. LEE.