

H. BAGLEY.

Mole-Plow.

No. 30,041.

Patented Sept. 18, 1860.

Fig. 1.

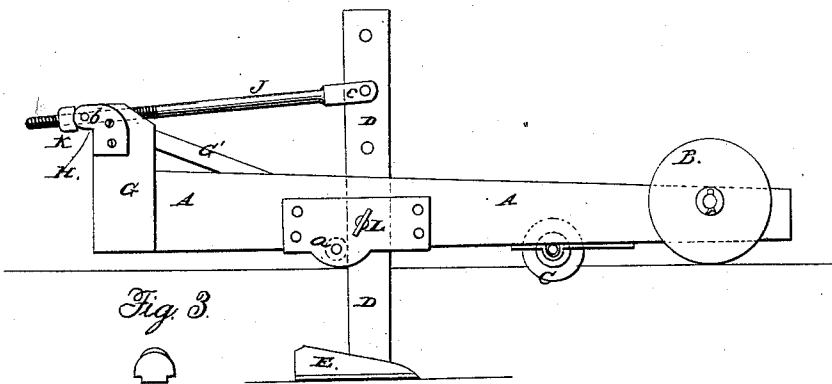
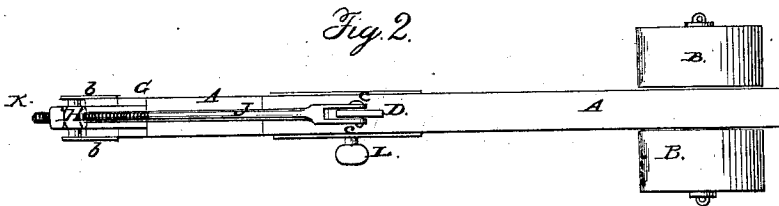


Fig. 3.



Inventor:

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Witnesses:

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H. BAGLEY, OF TIPTON, IOWA.

IMPROVEMENT IN MOLE-PLOWS.

Specification forming part of Letters Patent No. 30,041, dated September 18, 1860.

To all whom it may concern:

Be it known that I, H. BAGLEY, of Tipton, in the county of Cedar and State of Iowa, have invented a new and useful Improvement in Mole-Plows; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a side elevation of the machine, showing the plow in the ground in a perpendicular position, and also in an inclined state in red lines; Fig. 2, a plan view of Fig. 1. Fig. 3 shows the shape of the channel.

Similar letters of reference indicate corresponding parts in the several figures.

The object of this invention is to obtain a simple and inexpensive means for adjusting the mole-tooth while in or out of the ground, so that the underground channel may be made deeper or shallower as occasion requires, or so that the tooth may be made to enter into or run out of the ground whenever necessary.

To enable those skilled in the art to fully understand my invention, I will proceed to describe its construction and operation.

In the drawings, A represents a beam of the usual length and strength, the front end of which is supported on wheels B B, having a very wide tread, so that they will not be likely to sink into the wet clay soil; and in rear of these wheels is placed a rotary cutter, C, which projects from the bottom of the beam a sufficient distance to cut through grass, roots, and other obstructions that would be liable to choke up and increase the draft of the machine. Still farther in rear of the wheels a vertical slot is cut through the beam A, and this is faced on the top and bottom of the beam with metal plates to give strength and to prevent the beam from becoming injured by the plow stock or colter D, that passes through the slot. At a friction-roller is placed, against which the back of the colter D presses when in a fixed position, or during the manipulation of adjusting it. The colter D is made of a suitable length, and has one knife-edge for cutting its way

through the earth, and on its lower end is fixed a mole-tooth, E, the sole of which is in a plane at right angles with the edges of the colter. This tooth is made in the usual uniform shape, so as to pass through the earth, form the channel, and press its walls compactly. The sole of this tooth has two longitudinal grooves formed in it, that make a channel resembling in cross-section that represented by Fig. 3, which admits water freely into the channel. G is a strong upright timber, that is secured to the heel of the beam A and braced by a bar, G', so that it will be rigidly attached to the beam, on the top of which are bolted two bracket-bearing arms, b b, in which are supported a short transverse shaft, H, which is capable of turning freely in its bearings in the arms b b. Through the middle of this shaft is drilled a hole, through which passes loosely a strong brace and adjusting-bar, J, that is jointed by a bolt, c, at a suitable point to the upper part of the plow stock or colter D, as shown in Figs. 1 and 2 of the drawings. Then by screwing onto the end of bar J a nut, K, the stock D will be kept in its proper angle with the beam, and by setting up the screw L against the colter it will be rigidly attached to the beam. The colter, as represented in the drawings, is in a position at right angles with the beam; but from the above description it will be seen that by loosening the screw L and screwing the nut K farther on the bar J the colter, and of course the mole-tooth, may be set any angle with the beam desired, either while the mole-tooth is in the ground or out of the ground.

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

The arrangement of the swivel or oscillating bar H, upright G, adjusting screw-rod J, and nut K, with the adjustable stock D, beam A, screw L, and mole-tooth E, as and for the purpose herein shown and described.

HENRY BAGLEY.

Witnesses:

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