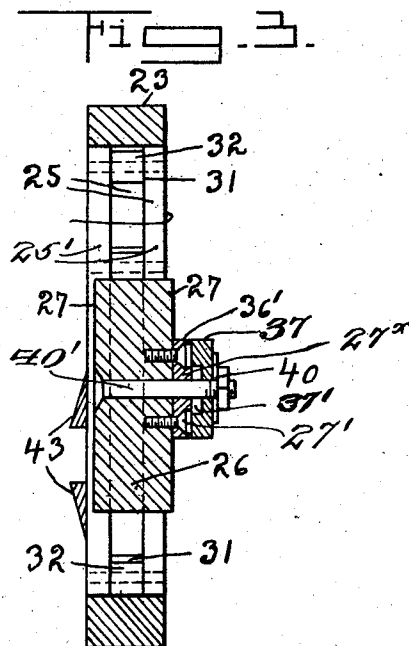
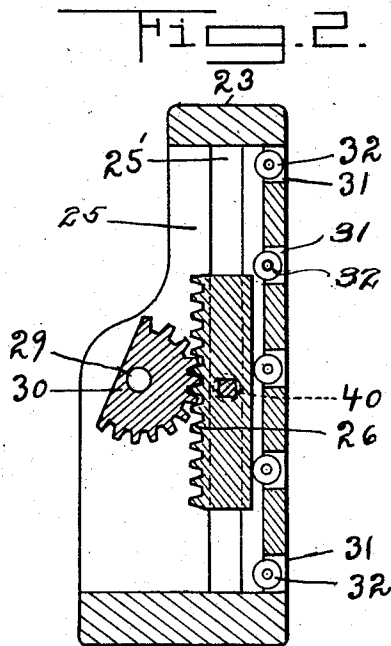
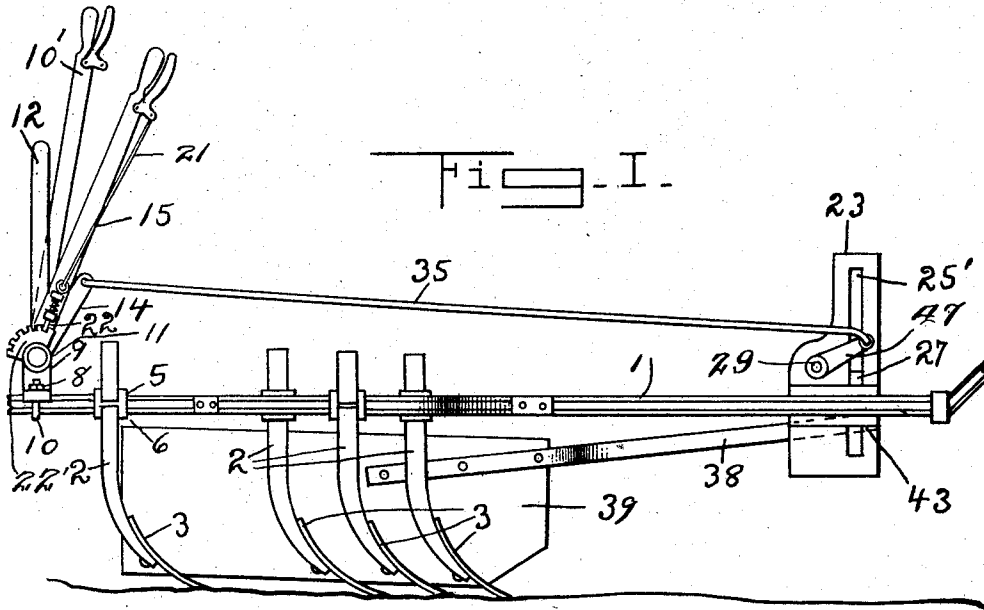


J. P. ERTEL.
FENDER FOR PLOWS.
APPLICATION FILED MAY 21, 1910.

992,646.

Patented May 16, 1911.



Witnesses

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JOHN P. ERTEL, OF RUSHVILLE, INDIANA.

FENDER FOR PLOWS.

992,646.

Specification of Letters Patent.

Patented May 16, 1911.

Application filed May 21, 1910. Serial No. 562,667.

To all whom it may concern:

Be it known that I, JOHN P. ERTEL, a citizen of the United States, residing at Rushville, in the county of Rush and State of Indiana, have invented certain new and useful Improvements in Fenders for Plows; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to fenders for cultivators and is an improvement over my pending application Sr. No. 533,571.

The object of this invention is to provide simplified means for raising the fenders into passive position when so desired.

Further objects will be apparent from the following specification and drawings thereof in which:—

Figure 1 is a side elevation of my fender for cultivator apparatus. Fig. 2 is a sectional view through the means for raising and lowering the fender, and Fig. 3 is a sectional view taken through a plane at right angles to Fig. 2 through the same mechanism.

Reference now being had to the details of the drawings by numeral, 1 designates the frame of the cultivator having the usual standards 2 and plow points 3 fastened thereto, said standards being held to the frame by castings 5. A fender 39 has a bar 38 fastened thereto, affording means for raising and lowering the fender. Supported upon the frame intermediate the brackets 43 is a supporting member 23 having slots 25 and 25' formed in planes at right angles to each other. Slidable vertically within the slot 25 is a rack bar 26, the teeth of which are in mesh with the teeth of a pinion 30 mounted upon a shaft 29 mounted in the side walls of the supporting member. A crank handle 37 is fixed to the shaft 29 and affords means for rocking the shaft to cause the rack bar to be raised and lowered. Said rack bar has laterally projecting wings 27, shown in Fig. 3 of the drawings, which are adapted to have a vertical play in the slots

25'. A series of anti-friction rollers 32 is mounted one in each of the recesses 31, formed in the supporting member and against which anti-friction rollers the edge of the rack bar is adapted to contact. Fastened to one of the wings 27 by means of the screws 27' is a clamping plate 27* against which a clamping plate 36' is held by means of a nut 40 mounted upon the bolt 40'. Said clamping plate 36' has a recess 37' upon its inner face adapted to receive the fender bar 38.

The rod 35, which is fastened at one end to the crank arm 37, has its rear end pivotally connected to the crank arm 14 journaled in its lower end upon a shaft 9, mounted in a bracket 8 which is held to the frame by means of a bolt 10. An operating lever 15 is mounted upon the shaft 9 and fixed to the crank arm 14 and is provided with a pawl 22 adapted to engage the teeth of the segment 22', a hand operating rod 21 serving to release the pawl when it may be desired to cause the fender to be raised or lowered. Said shaft 9 has an arched portion 12, and 10' is an operating lever fixed to the main operating shaft adapted to rock the same as the lever 10' is thrown in one direction or the other.

The operation of my invention will be readily understood from the foregoing as, by the simple manipulation of the lever 15, the rack bar may be raised or lowered with it the fender, accordingly as may be desired to have the same disposed at different elevations.

What I claim to be new is:—

In combination with the frame of a cultivator, a fender supporting member having brackets projecting from the face thereof and spaced apart and adapted to engage the upper and lower edges of the beam of the frame, said fender supporting member having slots at right angles to each other, a rack bar having laterally projecting portions movable within one of said slots, a series of anti-friction rollers journaled in recesses formed in said member and against which the rear edge of the rack bar is adapted to contact, a segment gear pivotally mounted in the other of said slots and engaging the teeth of the rack bar, a bolt passing through

the latter and projections thereof, clamping members mounted upon said bolt, one of said clamping members having a recess therein, a fender and arm thereto, which
5 latter is positioned in the recess in one of the clamping members, and engaged by the other clamping member bearing against said fender arm, and lever-actuated mechanism

connected to said segment gear turning the latter.

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

JOHN P. ERTEL.

Witnesses:

FRANKLIN V. HOUGH,

J. W. SHERWOOD.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
