(No Model.)

J. H. PALM.

Plow Clevis Adjuster.

No. 241,709. Patented May 17, 1881.

Fig. 1,

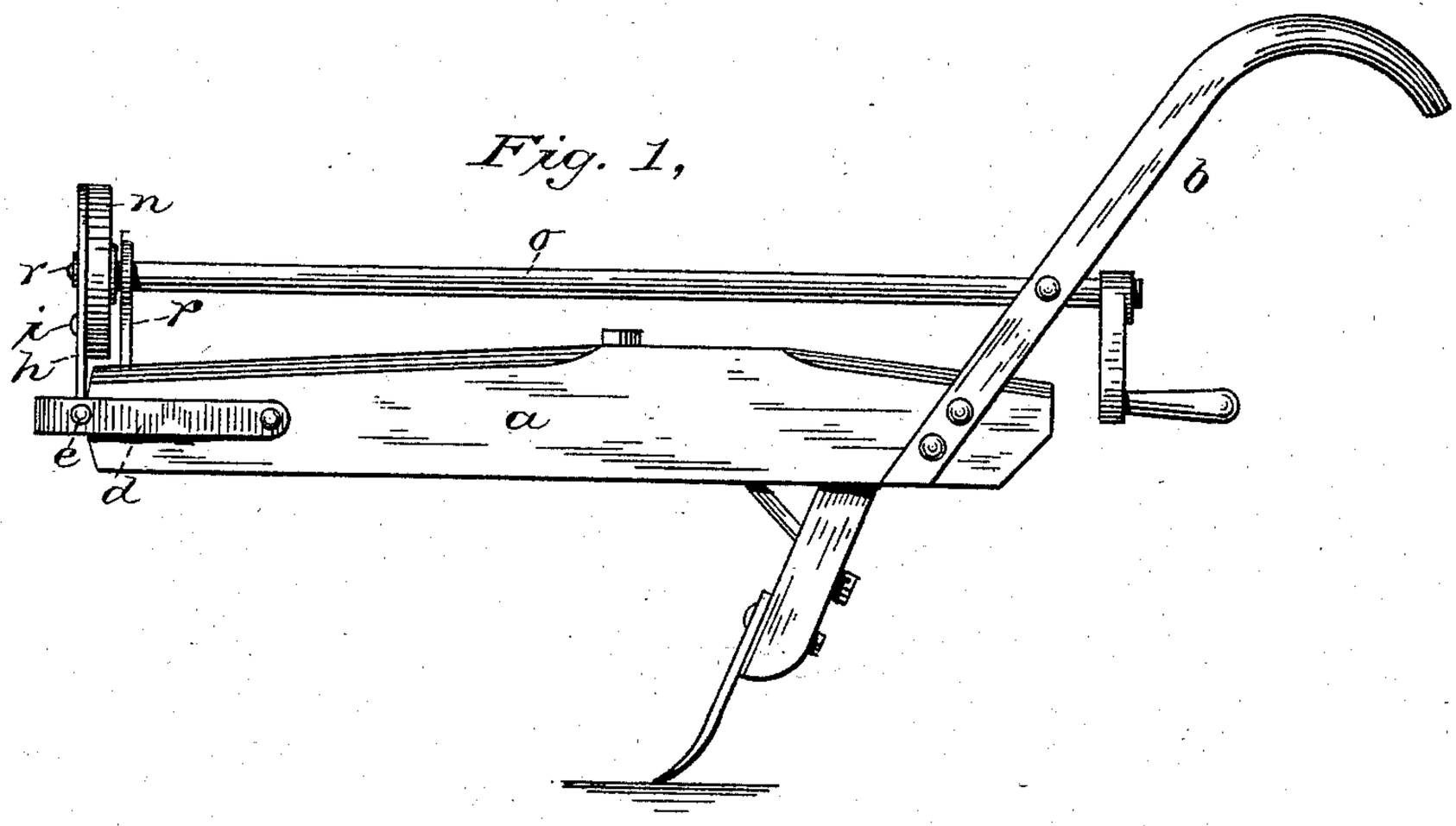


Fig. 2,

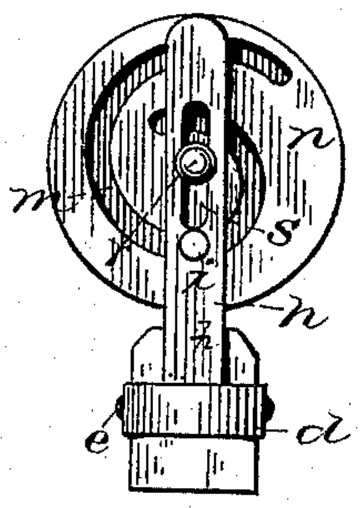
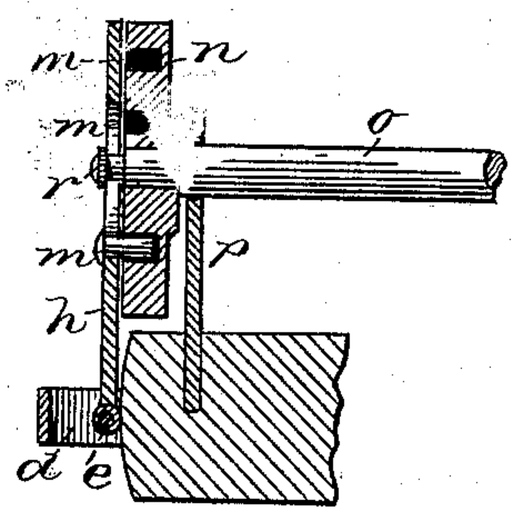


Fig. 3,



WITNESSES:

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UNITED STATES PATENT OFFICE.

JAMES H. PALM, OF LEXINGTON, OHIO.

PLOW-CLEVIS ADJUSTER.

SPECIFICATION forming part of Letters Patent No. 241,709, dated May 17, 1881.

Application filed April 9, 1881. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. PALM, of Lexington, Richland county, Ohio, have invented a new and useful Improvement in Plow-Clevis Adjusters; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side elevation of my improved plow adjusted, and Figs. 2 and 3 are detail views.

My invention relates to improvements in devices for raising and lowering the front end of a clevis pivoted to the forward end of a plow-beam, whereby the plow can be made to plow deeper or shallower; and it consists of a clevis having its opposite arms pivoted to a plow-beam on each side thereof, near its forward end, and provided near its front end with a cross-rod, to which a slotted tongue carrying a pin is hinged, the pin on the tongue engaging in a cam-groove in a wheel provided with a crank-shaft extending back parallel with the beam, whereby the clevis can be raised or lowered, as desired, by the plowman, as hereinafter more fully set forth.

In the accompanying drawings, *a* represents a plow-beam, provided with handles *b*, all of the usual construction.

d is the clevis, bent in bail form, and having its opposite arms pivoted near their ends to the forward end of the plow-beam.

e is a cross-bar connecting the opposite arms of the clevis, near its forward end, in the loop or opening formed between the front end of the plow-beam and the forward end of the clevis.

To the middle of the cross bar *e* is hinged the tongue *h*, provided with a pin, *i*, engaging in a cam-groove, *m*, made in the face of a wheel, *n*, arranged in a plane perpendicular to the plow-beam, and provided with a crank-shaft, *o*, supported by an upright, *p*, secured to the plow-beam, and extending back, preferably, between the handles, so as to be operated by the plowman. The front face of the wheel *n* is provided with a central pin, *r*, passing through a slot, *s*, in the tongue *h*, and having a washer on its outer end. The cam-groove *m*, made in the front face of the wheel *n*, is a spiral curve proceeding from near the center of the face of the wheel to near its circumference, the tongue, its pin, and the clevis being raised to the highest point when the pin on the tongue is in that part of the cam-groove nearest the center of the wheel, and the clevis most depressed when the pin on the tongue is in that part of the cam-groove near the circumference of the wheel.

Among the advantages of my invention the following may be enumerated: It is extremely simple and cheap in its construction, and can be applied to any plow of any form or make. The cross-rod to which the tongue is hinged serves also as a brace to the clevis at or near the point where the draft is applied, and the tongue with its pin being in a vertical plane, the pin in its different positions rests at the bottom of the cam-groove, or the cam-groove curves upwardly from the pin on both sides in its different positions in the groove, so that the pin cannot slide therein by gravity, whereby the clevis is securely held at any point it may be raised or lowered to by the crank.

What I claim as my invention is—

1. The combination, with a hinged clevis provided with a tongue having a pin, of a wheel provided with a cam-groove, substantially as described.

2. The combination of a plow-beam, *a*, clevis *d*, pivoted thereto, slotted hinged tongue *h*, provided with pin *i*, wheel *n*, provided with cam-groove *m*, and crank-shaft *o*, substantially as described, and for the purpose set forth.

JAMES H. PALM.

Witnesses:

W. S. MITCHELL,

A. T. HILLS.