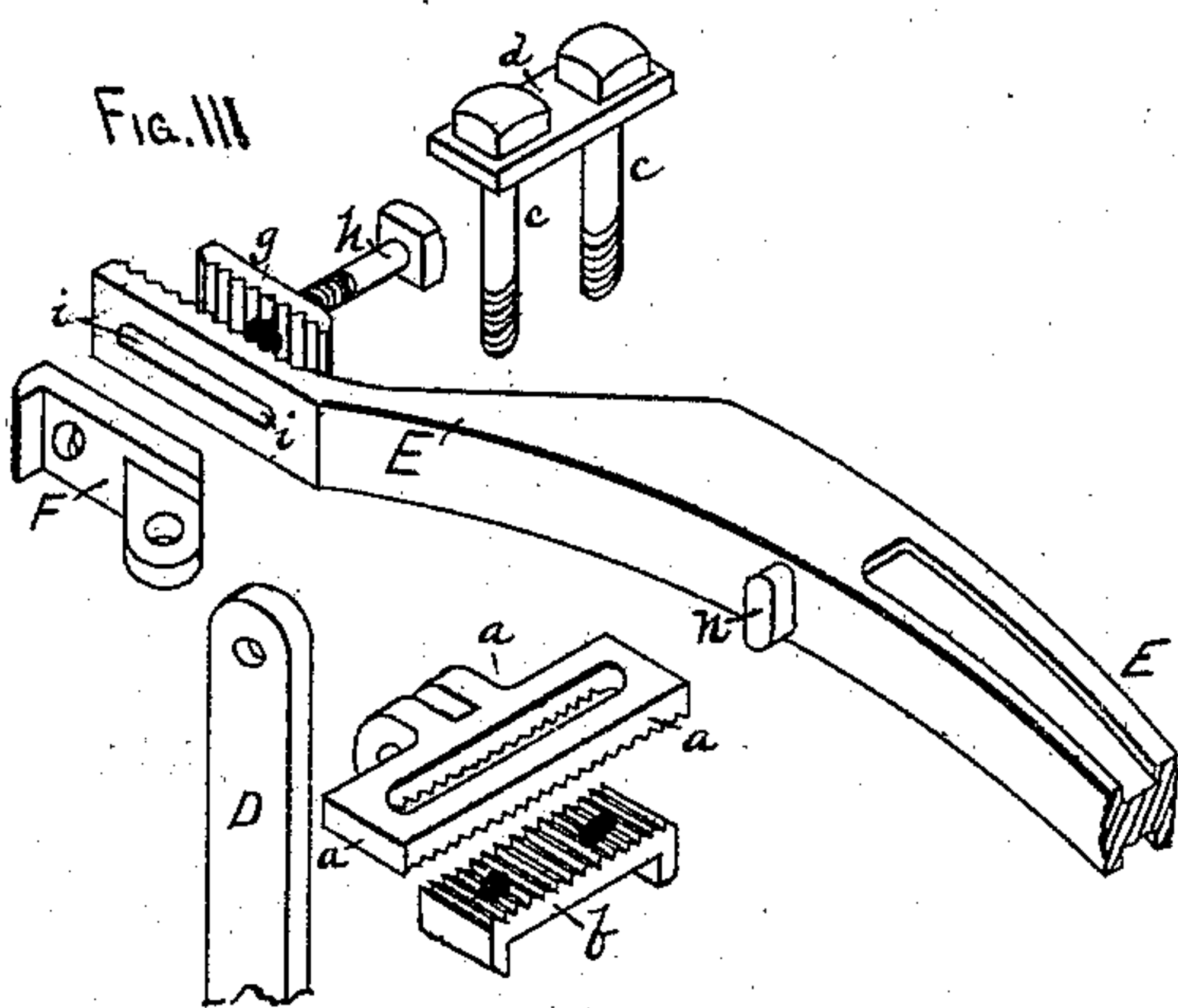
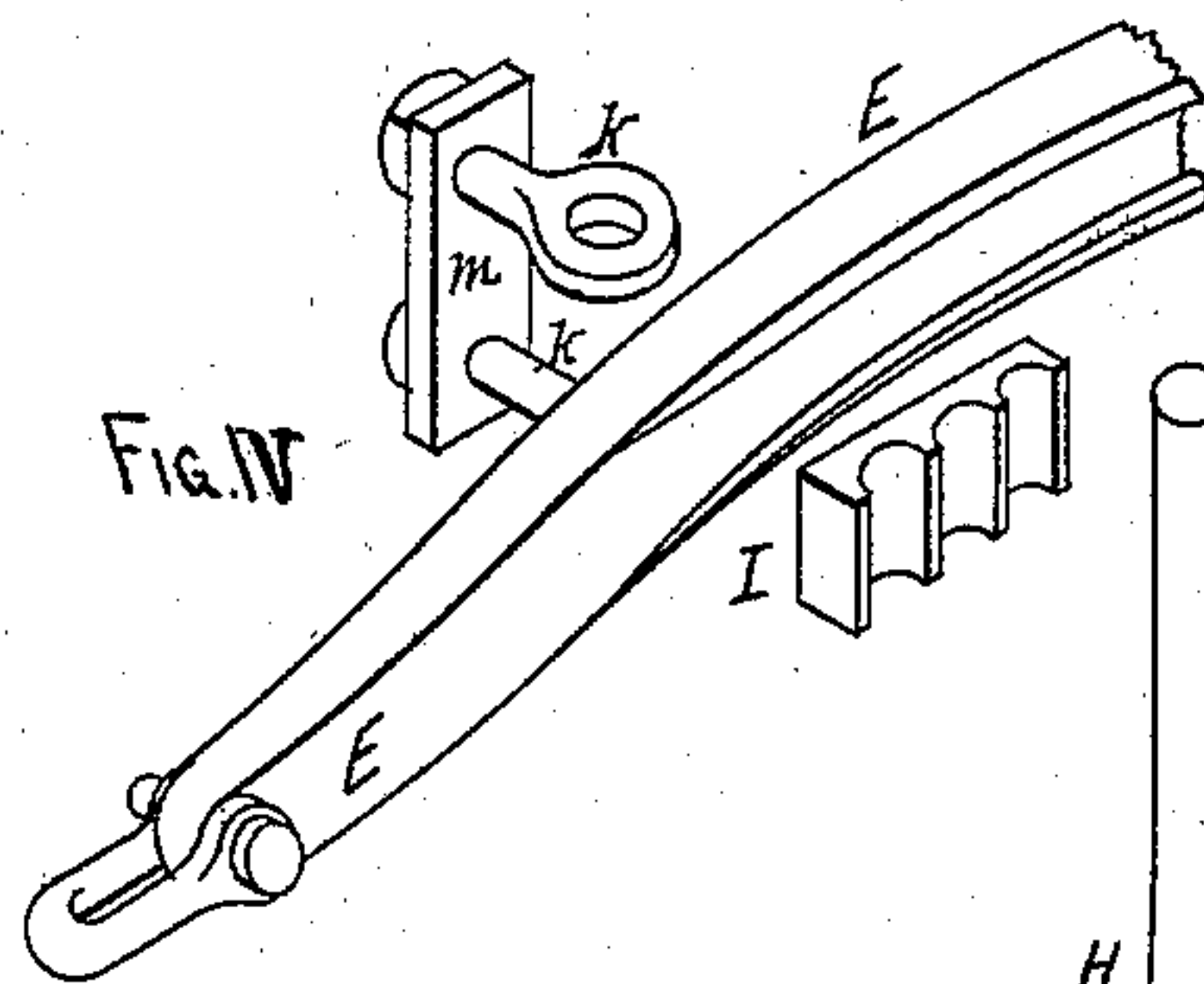
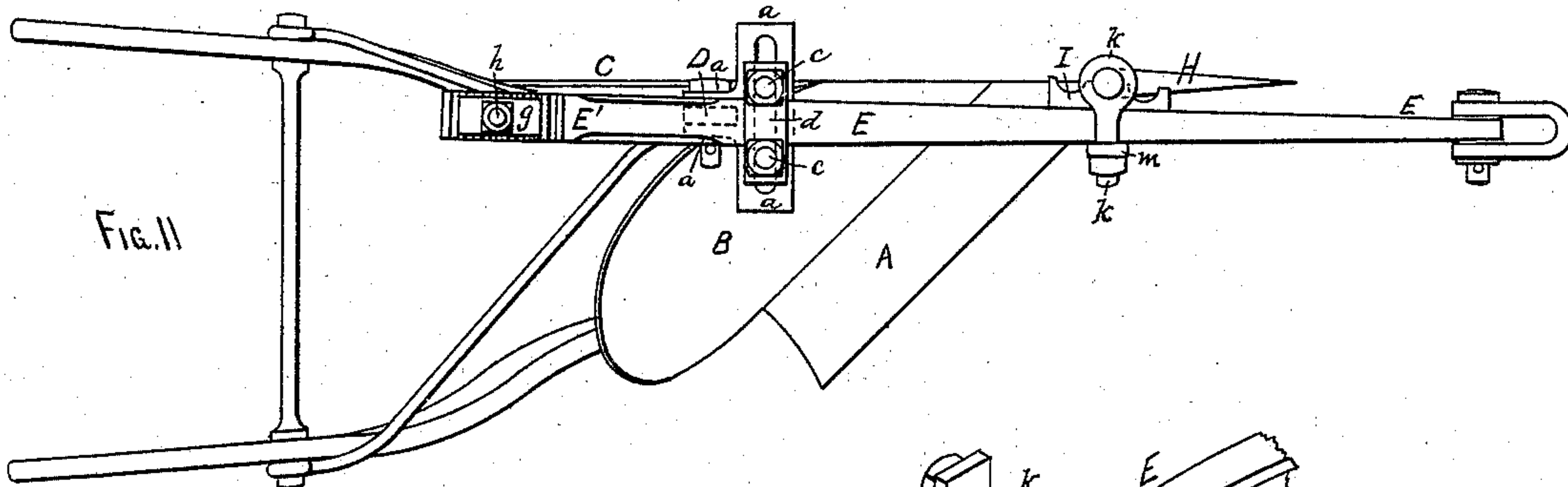
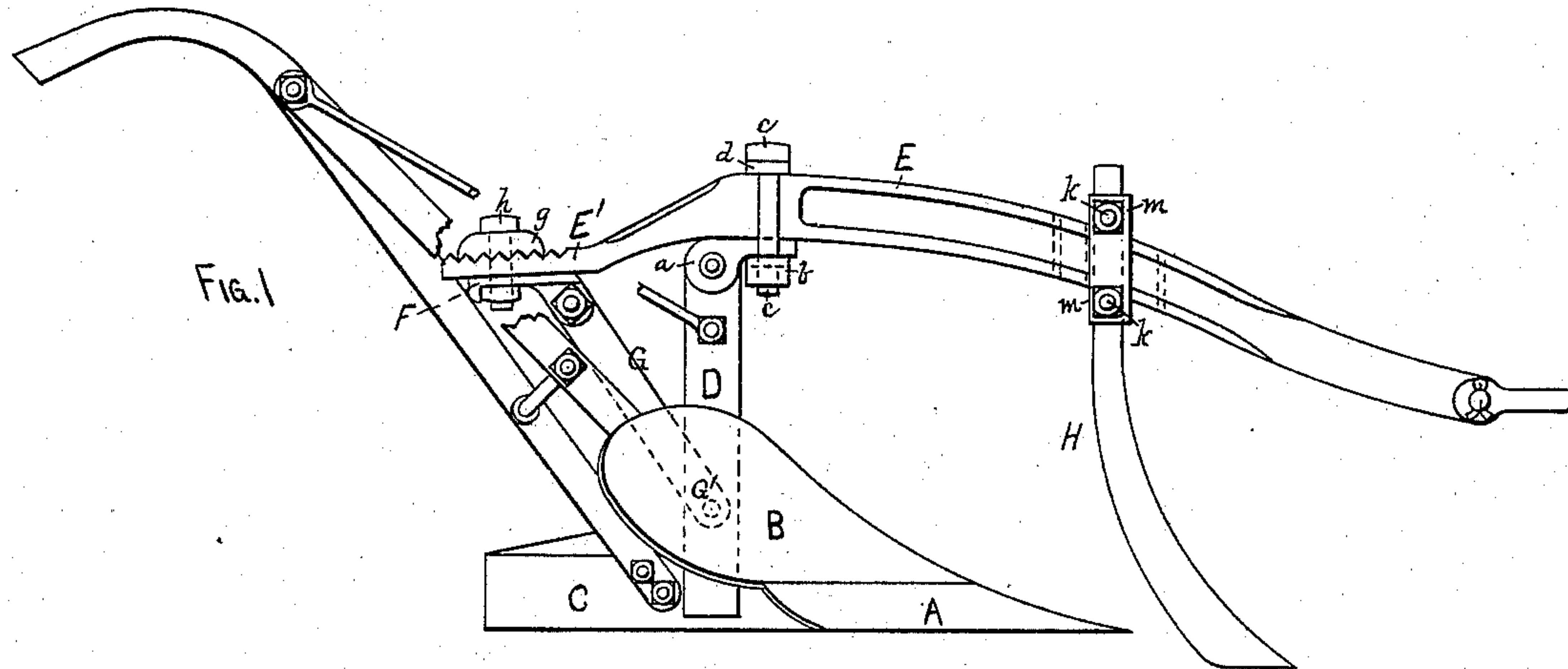


R. ADAMSON.
Plow.

No. 221,901.

Patented Nov. 25, 1879.



WITNESSES.
W. H. Woodward,
Edw. Rotent.

Rasmus Adamson,
INVENTOR, BY
Louis Fisher & Co.
Attys.

UNITED STATES PATENT OFFICE

RASMUS ADAMSON, OF MINNEAPOLIS, MINNESOTA.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **221,901**, dated November 25, 1879; application filed January 23, 1879.

To all whom it may concern:

Be it known that I, RASMUS ADAMSON, of Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Plows, which improvements are fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a side elevation, and Fig. 2 is a plan view, of a plow, showing my improvements attached thereto; Fig. 3, detached detail perspective views of the beam-adjusting mechanism; Fig. 4, detached detail perspective views of the colter-adjusting clamp.

My invention consists of the peculiar combination and arrangement, with the plow-beam, of the mold-board and connecting devices, whereby ready adjustment is attained, as will be hereinafter and in detail set forth.

A is the share; B, the mold-board; C, the land-side, and D the standard. Upon top of the standard a slotted plate, *a*, is hinged, as shown, and provided upon its lower face with serrated teeth, into which similar teeth on a perforated plate, *b*, fit.

E is the beam, which rests across this plate *a*, and is held thereto by bolts *c*, which pass down through a clamp, *d*, on top of the beam, and through the plates *a b* beneath it, as shown.

It will be readily seen that if the bolts *c* be loosened the beam may be turned to the right or left, and there clamped immovably by means of the serrated plates and the bolts, and thus enable the draft to be altered without changing the position of the whiffletree, &c.

The rear end, *E'*, of the beam is provided with serrated teeth on its upper side, into which similar teeth on a plate, *g*, fit, and through both of which a bolt, *h*, passes, and also through a small plate, *F*, hinged to a brace or bar, *G*, the lower end of which is pivoted to the standard D at *G'*.

The hole through the rear end, *E'*, of the beam (through which the bolt *h* passes) will be an elongated slot, *i*, as shown in Fig. 3, so that by simply loosening the bolt *h* until the teeth in the plate *g* and upon the beam *E'* are disengaged the outer end of the brace or bar *G* may be moved nearer to or farther from the standard D, and, having its lower end pivoted to the standard, this motion will, of course, elevate or depress the beam at the rear end.

The beam being stationary longitudinally upon the slotted plate *a* and standard D, the raising and lowering of the rear end will affect the forward end in the opposite manner; hence the longitudinal elevation of the forward end of the beam may be adjusted to regulate the depth of cut by clamping the brace *G* at the required angle. By these arrangements the two movements of the forward end of the beam—viz., lateral and longitudinal—may be obtained without the use of the adjustable clevis.

In moving the whole beam laterally the colter will, of course, be carried with it; hence it becomes necessary to provide some means of adjusting it farther from or nearer to the beam to keep it at all times in the proper position with reference to the point of the share. To accomplish this I attach the colter to the beam E by bolts *k* and clamp *m*, and interpose between the stem H of the colter and the beam E a wedge-shaped block, *I*, which, by setting backward or forward, will throw the colter farther from or nearer to the beam. This wedge *I* will be provided with grooves, into which the stem H will fit, to prevent its slipping out of place.

A small lug, *n*, upon the lower side of the beam E fits into the slot in the hinged plate *a*, to receive the strain of the beam and relieve the bolts *c*.

Indexes or scales may be placed upon the plates *a* and F, to enable the operator to set the plow for any required draft or depth of cut.

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

In combination with the plow-beam E, having slotted and serrated rear end, *E'*, standard D, mold-board B, and clamping devices *a b c d*, the plate F, hinged to the brace *G*, the serrated plate *g*, and screw-bolt *h*, substantially as and for the purposes set forth.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

RASMUS ADAMSON.

Witnesses:

C. N. WOODWARD,
LOUIS FEESER.