

D. J. NOBLE.
Wheel-Cultivator.

No. 58,125.

Patented Sept 18. 1866

Fig. 1.

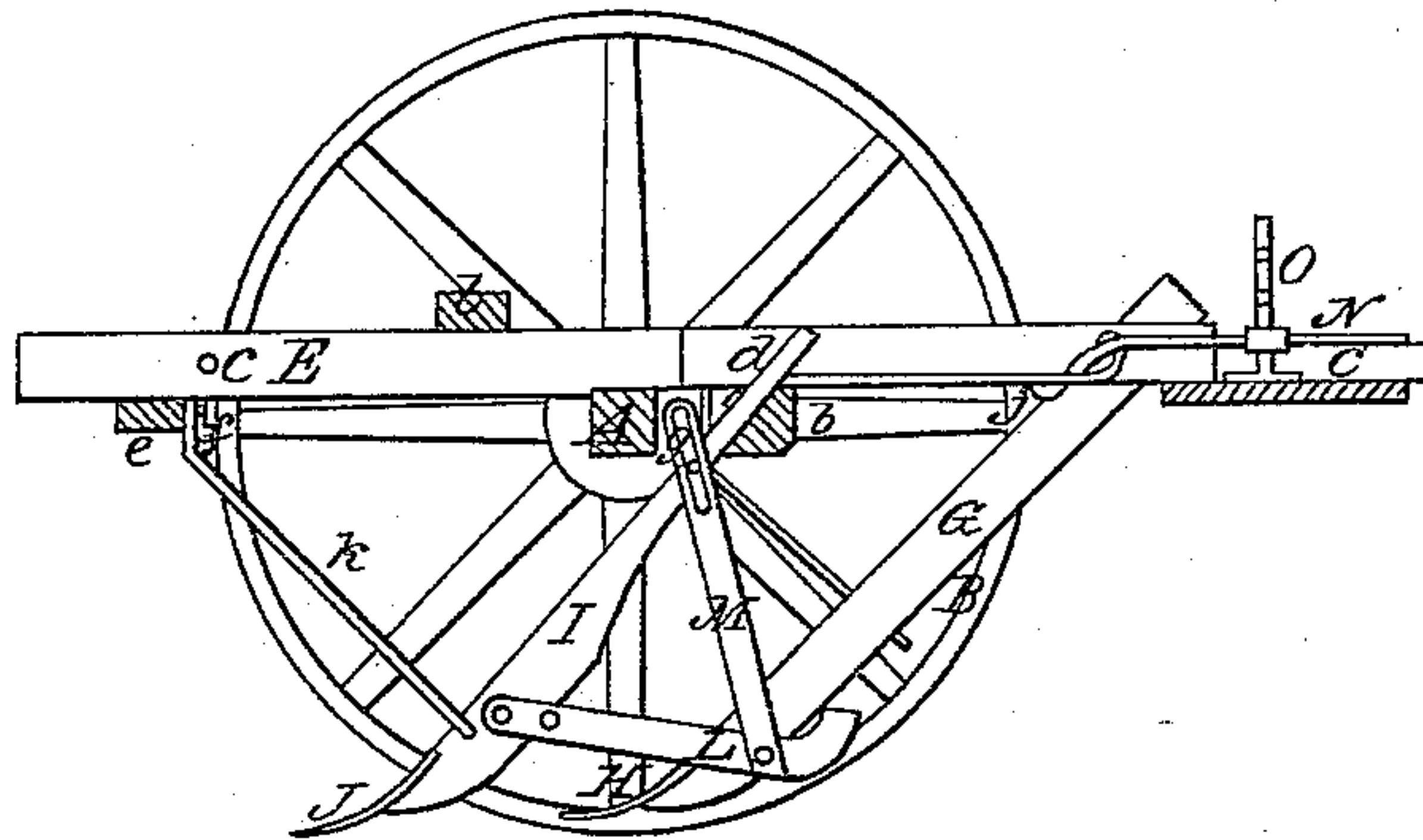


Fig. 2.

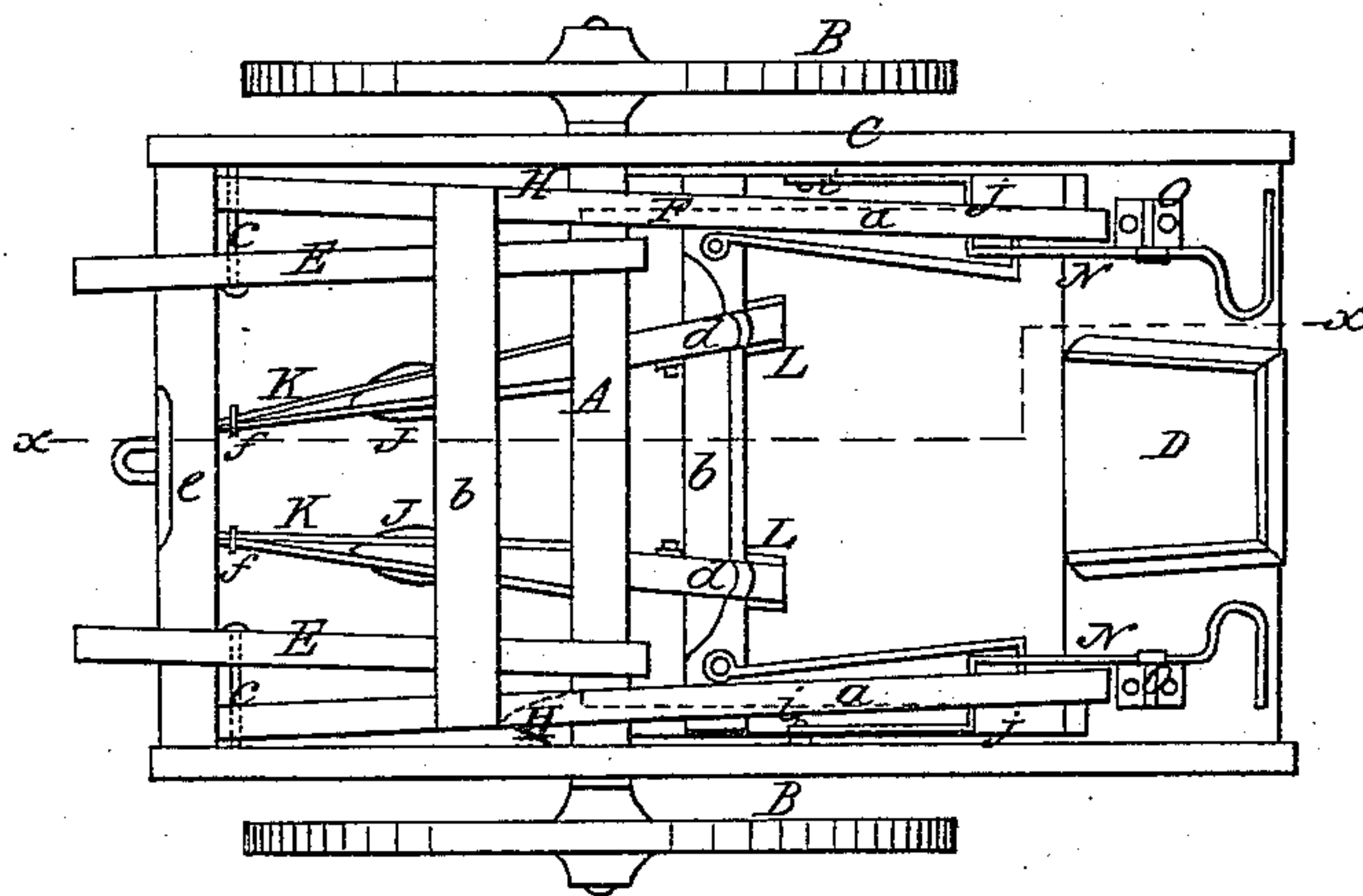
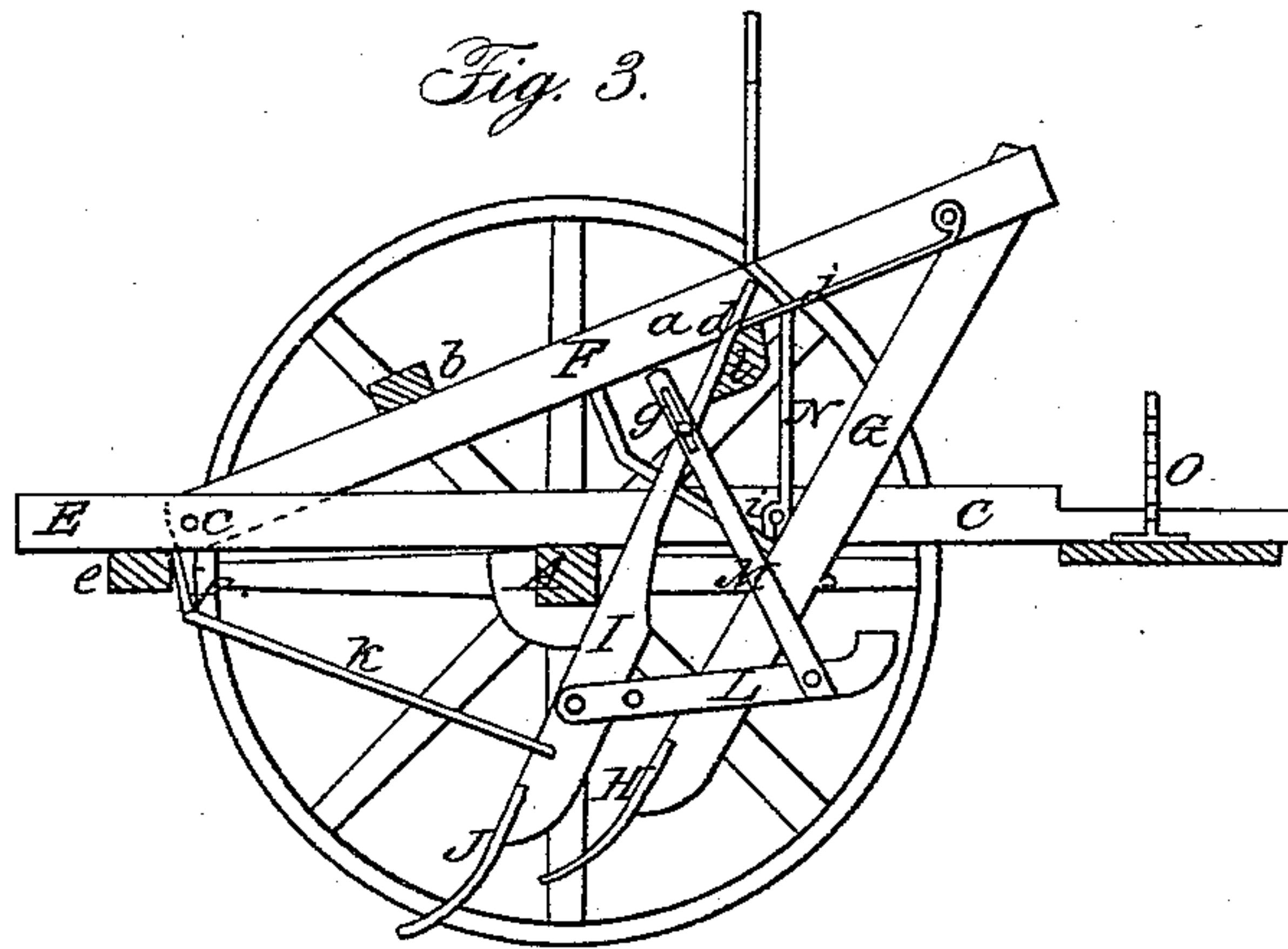


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

D. J. NOBLE, OF NEW BOSTON, ILLINOIS.

IMPROVEMENT IN CORN-CULTIVATORS.

Specification forming part of Letters Patent No. 58,125, dated September 18, 1866.

To all whom it may concern:

Be it known that I, D. J. NOBLE, of New Boston, in the county of Mercer and State of Illinois, have invented a new and Improved Cultivator; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side sectional view of my invention, taken in the line *xx*, Fig. 2; Fig. 2, a plan or top view of the same; Fig. 3, a side sectional view of the same, taken in the same line, *xx*, as Fig. 1, but having its parts adjusted in a different position.

Similar letters of reference indicate like parts.

This invention relates to a new and improved cultivator of that class designed for cultivating crops grown in hills or drills; and it consists in a novel arrangement of the two inner or laterally-moving plows, and also in a novel adjusting device for the plow-frame, as hereinafter fully shown and described, whereby it is believed that the laterally-moving plows may be operated with greater facility than hitherto, and all the plows made to penetrate the earth at a greater or less distance, as may be required, and retained or held down in the ground the required distance, and at the same time to be capable of being adjusted with the greatest facility.

A represents an axle, having a wheel, B, at each end of it; and C is a rectangular frame placed on said axle, and having the driver's seat D on its rear end.

E E represent a portion of the thills, secured to the device in any proper manner.

F represents a rectangular frame, composed of two parallel side bars, *a a*, connected by cross-bars *b b'*. The front ends of these bars *a a* are connected by pivot-bolts or rods *c c* to the front ends of the frames C, and to the parts of the bars *a a* inclined standards G are secured, having plows H attached to their lower ends.

To the rear cross-bar, *b'*, of the frame F there are attached by pivots *d* plow-standards I I,

having plows J secured to their lower ends. These standards I are connected by braces K to the front cross-bar, *e*, of the frame C by joints *f*, to admit of laterally-swinging movements of the standards I I.

Each standard I has a foot-piece, L, attached to it, and these foot-pieces are connected by brace-bars M to the standards, the upper ends of M having longitudinal oblong slots *g* made in them, through which slots screws *h*, into the standards.

The oblong slots *g* admit of the foot-pieces L being adjusted higher or lower to suit the driver on seat D, and it will be seen that the driver, by means of his feet, can give the plows a greater or less degree of lateral movement, as may be required, so that the plows J may be made to conform to the sinuosities of the rows of plants with but very little exertion on the part of the driver.

To each side piece of the frame C there is secured by a fulcrum-pin, *i*, a lever, N. These levers are of bent form, so that each will have a shoulder, *j*, underneath the side bars, *a a*, of the frame F, so that by raising said levers the frame F will be raised and all the plows elevated above the surface of the ground. (See Fig. 3.)

By lowering the levers N the frame F will be lowered, and the plows retained in the ground a greater or less distance by securing the levers N in any of a series of notches in plates O in the rear cross-piece of frame F. This is a very important feature of the invention, as it enables the driver to make the plows operate as required. For instance, in passing over low or mellow surfaces of soil, in which the plows would be liable to penetrate too deep, the latter may be raised a trifle, the levers N placed in higher notches in the plates O, and the plows firmly retained in position. This holding of the plows down to their work and adjusting them so as to plow more or less deep may be done by the driver when the device is in operation.

I do not claim, broadly, the employment or use of laterally-swinging or adjustable plows, for they have been used and arranged in various ways; but,

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

The adjustable foot-pieces L L, connected to the plow-standards I I and arranged with brace K, in combination with the mode of attaching said standards to the frames C and F, substantially as and for the purpose herein specified.

The above specification of my invention signed by me this 18th day of November, 1865.

D. J. NOBLE.

Witnesses:

M. M. LIVINGSTON,
ALEX. F. ROBERTS.