

Jno. R. Hand, Cultivator,

N^o 74.082.

Patented Feb. 4. 1868.

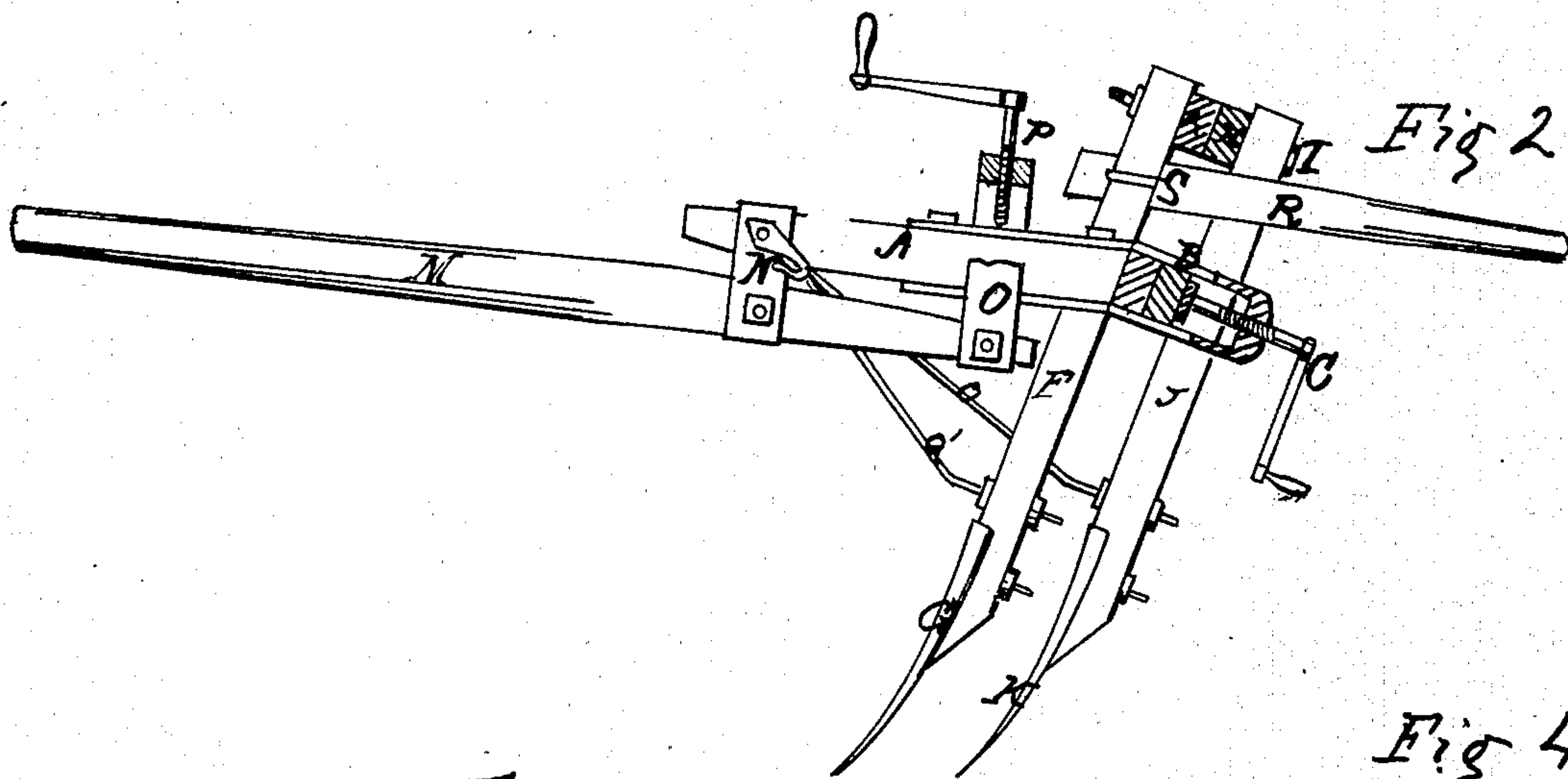


Fig. 3.

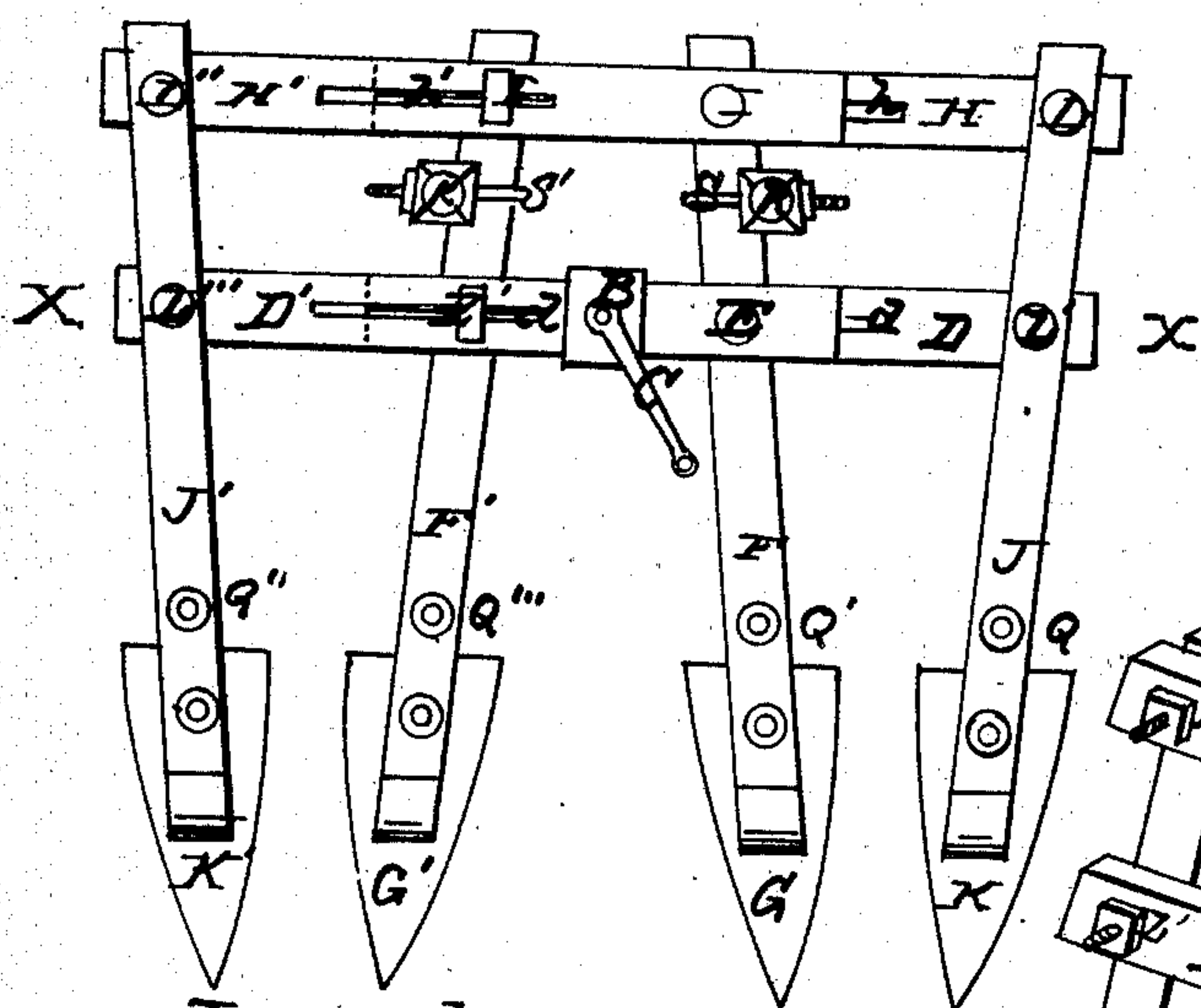


Fig. 4

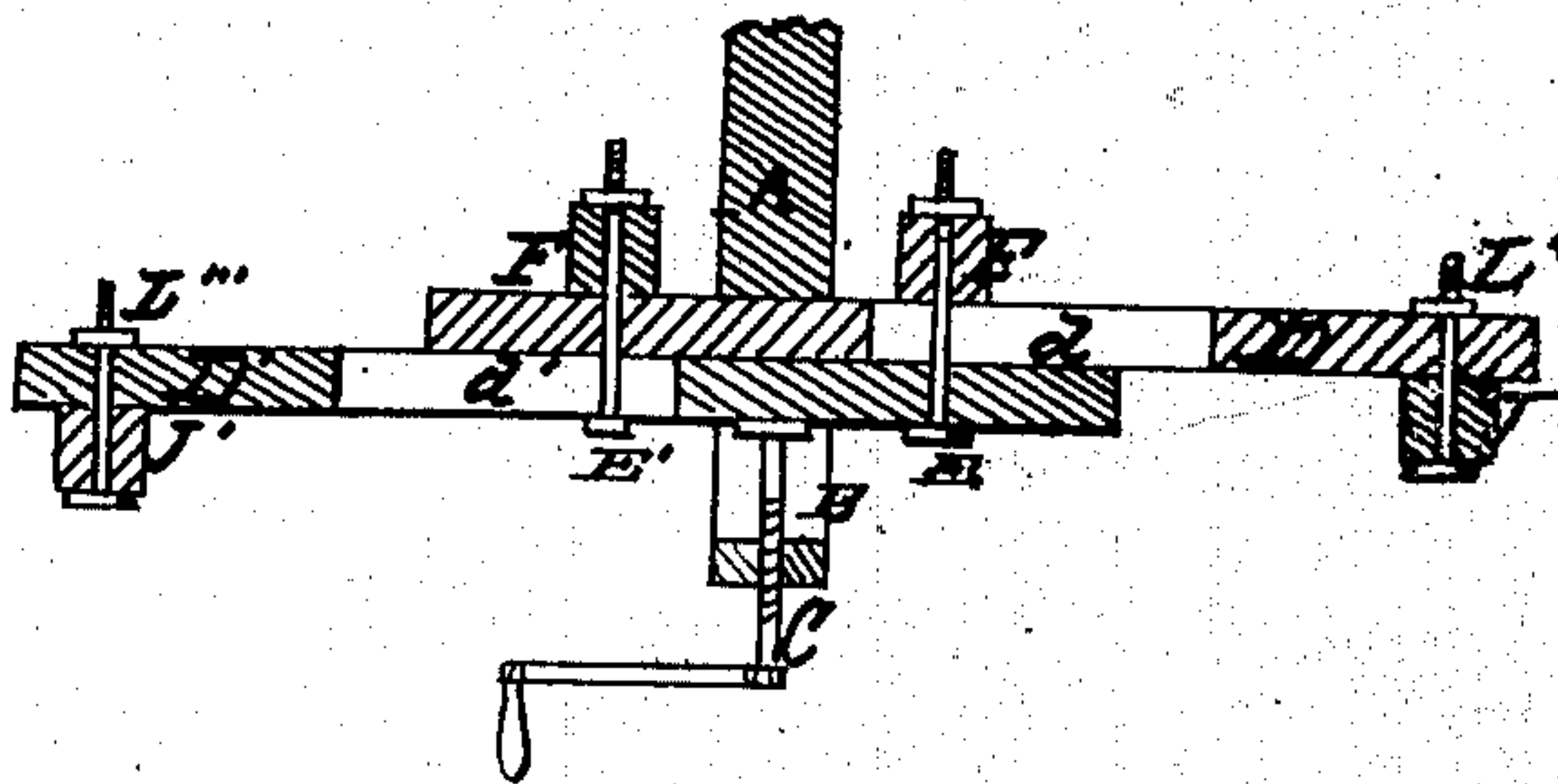
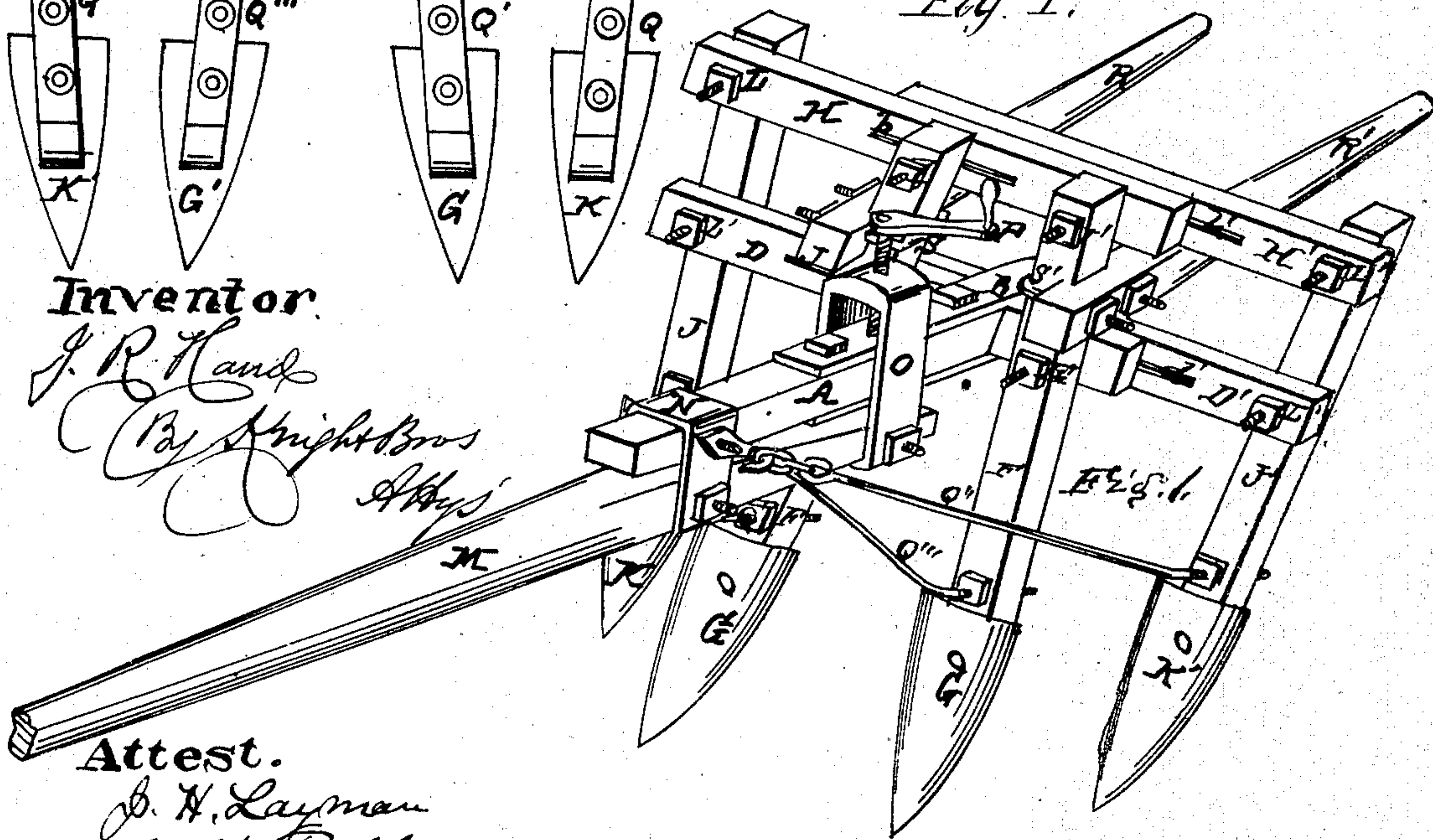


Fig. 1.



Inventor.

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JOHN R. HAND, OF COLLEGE CORNER, OHIO, ASSIGNOR TO HIMSELF
AND JOHNSON ORR, OF SAME PLACE.

Letters Patent No. 74,082, dated February 4, 1868.

IMPROVEMENT IN CULTIVATOR.

The Schedule referred to in these Letters Patent and making part of the same.

TO WHOM IT MAY CONCERN:

Be it known that I, JOHN R. HAND, of College Corner, Butler county, Ohio, have invented a new and useful Cultivator; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

My invention relates to a construction of cultivator capable of application to a great variety of soils, crops, &c.

Figure 1 is a perspective view of a cultivator embodying my invention.

Figures 2 and 3, are respectively a longitudinal section and rear elevation thereof.

Figure 4 is a horizontal section at the line *xx*, fig. 3.

The beam A is bent downward at rear, and is provided with a clevis, B, having a set-screw, C, for enclosing and holding a pair of sliding cross-rails, D D', having slots, *d d'*, for bolts, E E', which secure to said rails the sheths F F' of the two interior shares G G'. H H' are two upper sliding cross-rails, also slotted at *h h'*, and secured to the upper ends of the said sheths by bolts I I'. J J' are the sheths of two outside shares, K K' secured to the extremities of the said slide rails by bolts L L' L'' L'''. The slots *d d' h h'* enable the shares to be set to any desired relative distance apart. M is the draught-pole, tapered on its upper side toward its rear end, and having a strap, N, which encloses the beam A, near its front end, and is bolted fast to both pole and beam, and a clevis, O, which also encloses the beam, and has a set-screw, P, whose elevation and depression act to lower and raise the point of the pole, so as to throw the implement in or out of pitch. The sheths F F' J J' are connected to the strap N by means of braces, Q Q' Q'' Q''', which braces have screw-nuts by which they are both secured and adjusted. The handles R R' are fastened to the sheths F F' by means of clips S S, which being adjustable enable the handles to be set higher or lower, to suit different operators or kinds of work.

I claim herein as new, and of my invention—

1. The draught-pole M, capable of adjustment upon the beam A, by means of the clevis O and screw P.
2. In combination with the elements of claim first, I claim the shares G G' K K' and handles R R', adjustable in the manner set forth.

In testimony of which invention, I hereunto set my hand.

JOHN R. HAND.

Witnesses:

GEO. H. KNIGHT,

C. K. PICKLES.