

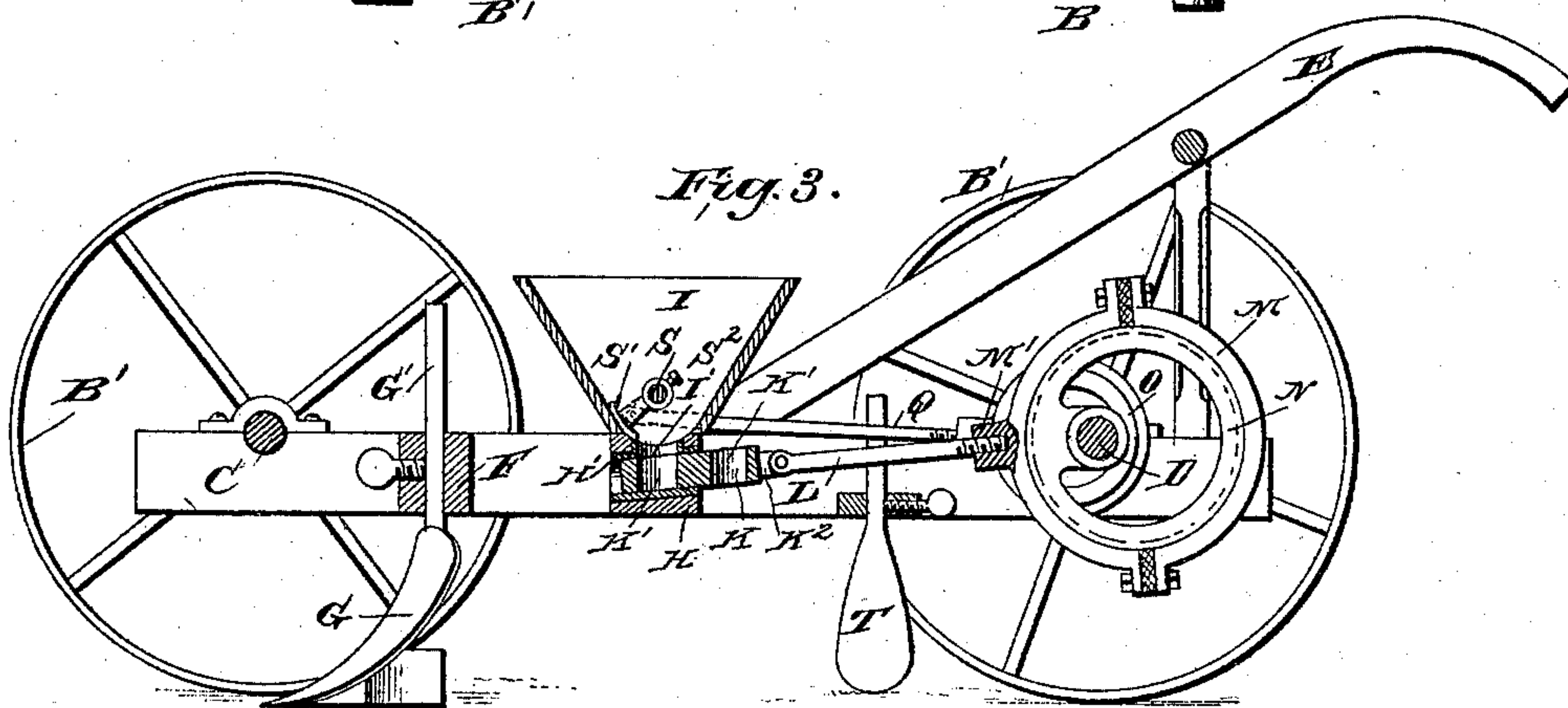
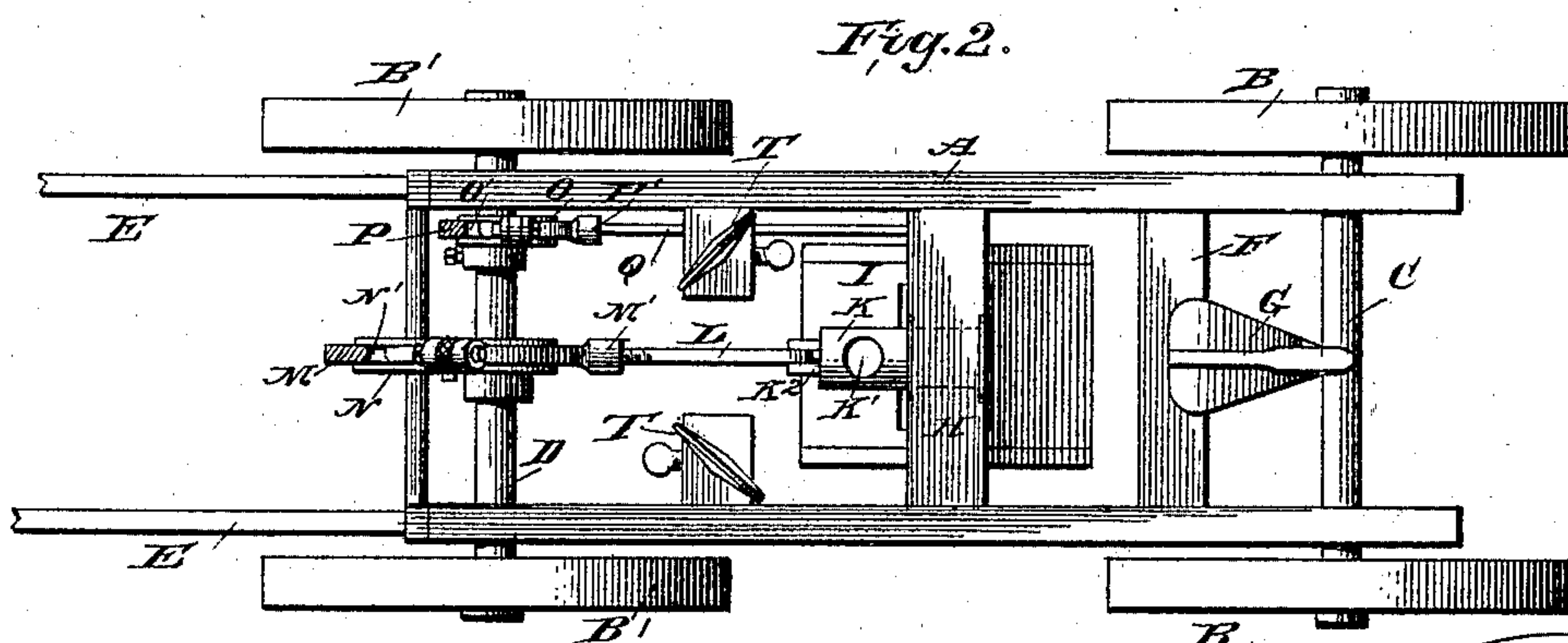
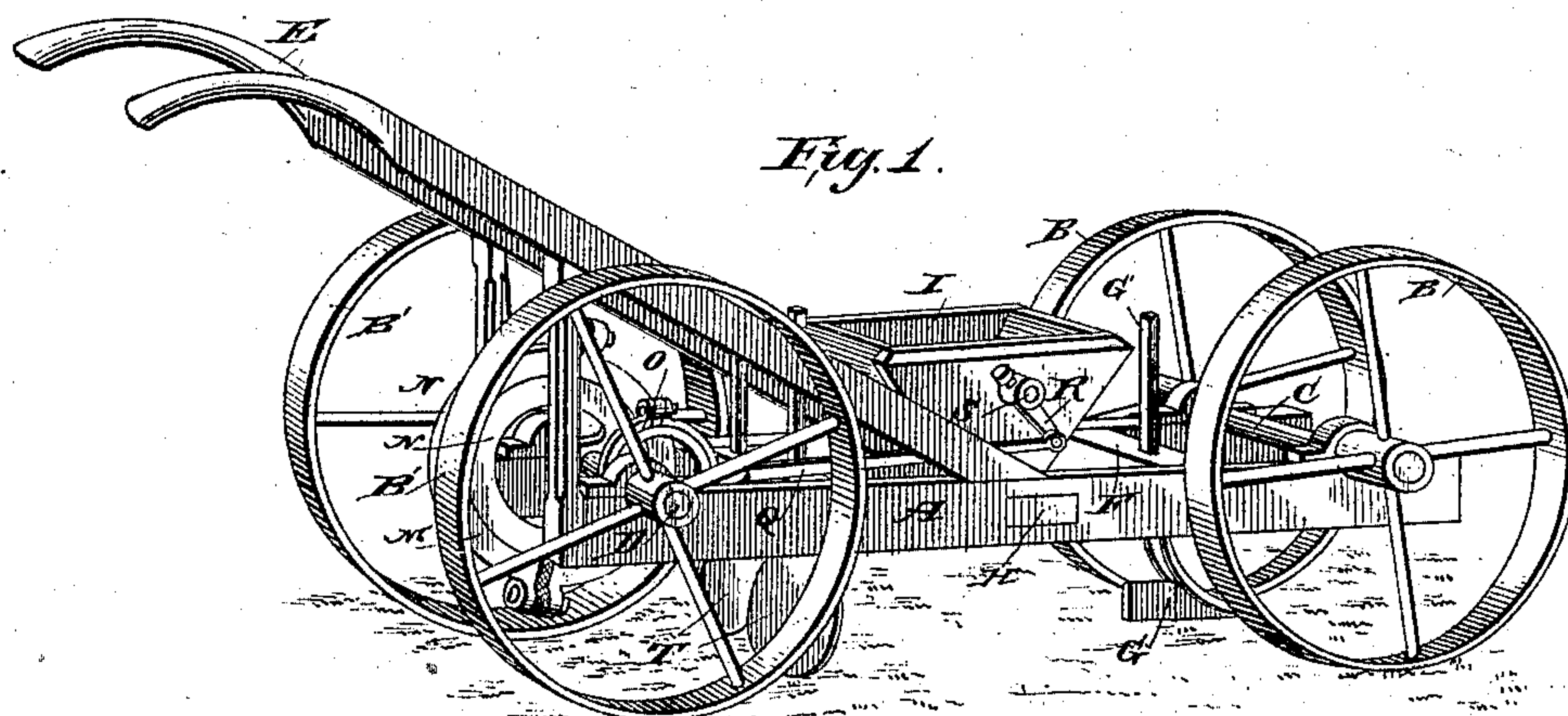
(No Model.)

J. A. CHILDS.

PLANTER.

No. 368,811.

Patented Aug. 23, 1887.



WITNESSES:

Fred G. Dietrich
John C. Kemmer

INVENTOR:

J. A. Childs
BY Mum & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

JESSE ALFRED CHILDS, OF COUSHATTA, LOUISIANA.

PLANTER.

SPECIFICATION forming part of Letters Patent No. 368,811, dated August 23, 1887.

Application filed April 20, 1887. Serial No. 235,548. (No model.)

To all whom it may concern:

Be it known that I, JESSE ALFRED CHILDS, of Coushatta, in the parish of Red River and State of Louisiana, have invented a new and useful Improvement in Planters, of which the following is a specification.

My invention consists in an improved cotton and corn planter, which will be hereinafter fully described and claimed.

Referring to the accompanying drawings, Figure 1 is a perspective view of my improved planter. Fig. 2 is a bottom plan view, and Fig. 3 is a vertical longitudinal section thereof.

The same letters of reference indicate corresponding parts in all the figures.

Referring to the several parts by letter, A represents the rectangular main frame, which is supported at its front end on the wheels B B, which turn on the front axle, C, which is rigidly secured in bearings at the front end of the frame, while the rear end of the frame is supported on corresponding wheels, B' B', which turn with axles D, supported at the rear end of the rectangular frame. The frame is provided at its rear end with the handles E, of ordinary construction.

In the center of the front cross-piece, F, of the main frame, to the rear of the front axle, is adjustably secured the vertically-adjustable standard G' of the plow G, which opens the furrow, and on the central cross-piece, H, of the main frame is secured the hopper I, the ends of which slant toward the bottom, as shown, the bottom of the hopper being formed with the discharge-opening I', and the cross-piece on which the hopper is secured has a transverse bearing, H', in its upper side at the center thereof, which opening or bearing communicates with the opening in the bottom of the hopper. In this opening reciprocates a semi-cylindric slide, K, having two vertical feed-openings, K' K', one toward each end, and the rear end of this cylinder is formed with the jaws K², between which is pivoted the forward end of a pitman, L, the rear end of which is screwed in a bearing, M', on the front edge of an adjustable removable ring, M, which fits and moves in the annular groove N', in the periphery of an eccentric cam, N, which is secured eccentrically on the central portion of the rear revolving axle, D, and rotates therewith. This ring M is made in two halves

or sections, as shown, to permit of its being removed and placed on eccentrics of different size, which may be secured on the rear axle according to the distance apart at which it is desired to sow the hills.

The planter may be impelled forward by one man, if desired, or one or more horses may be employed; and it will be seen that as the wheels revolve the rear axle will rotate its central eccentric cam, which will in turn operate through the ring M and the connecting-rod or pitman L to reciprocate the cylinder K, so as to bring first one and then the other of its vertical feed-apertures K' to register with the discharge-opening in the bottom of the hopper.

On the rear revolving axle, D, to the right of its central eccentric cam, N, is rigidly secured a small eccentric cam, O, having an annular groove, O', in its periphery, in which fits and moves an adjustable removable ring, P, similar in construction to the large ring M, and having on its forward edge a bearing, P', in which is screwed the rear end of a connecting-rod or pitman, Q, the front end of which is pivoted to the lower end of an arm, R, rigidly secured on the outer end of a rock-shaft, S, which is journaled in the sides of the hopper and extends transversely across the same above the discharge-opening thereof, and carries the cut-off S', which regulates the quantity of grain or seed which passes into the feed-openings of the cylinder K. It will be seen by reference to the drawings that this cut-off may be turned and adjusted on the shaft S, and secured by the set-screw S² in its adjusted position, so as to automatically regulate the amount of grain which enters the registering openings of the cylinder, as will be readily seen.

To the rear of the hopper are adjustably secured the adjustable coverers T T; and it will be seen that both the furrow-opening plow and the coverer-blades may be raised or lowered to suit the depth required.

It will be seen that the reciprocating cylinder K will plant two hills for each revolution of the rear axle, the cut-off regulating with the greatest exactness the quantity of seed discharged into each hill, and when it is desired to double the distance between the hills planted one of the feed-openings of the cylinder may be closed, while, if it is desired to still further

increase the distance between the hills, the central eccentric cam can be removed and a larger one substituted. The cut-off may be adjusted on its shaft to suit the increased size
5 of the central eccentric cam, N.

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

10 The combination, with the main frame supported on the front and rear wheels, of the adjustable plow, the hopper having the discharge-opening, the cylinder reciprocating beneath the said opening and having the feed-openings formed in it, the transverse shaft hav-

ing the arm on its outer end and carrying the adjustable cut-off, the large and small eccentric cams secured upon the revoluble shaft and having the annular grooves formed in their peripheries, the removable adjustable rings fitting in the said grooves and having
20 the pitmen, and the adjustable coverer-blades, all constructed and arranged to operate in the manner and for the purpose herein set forth.

JESSE ALFRED CHILDS.

Witnesses:

KETH LOCKETT,
C. H. MCNEICE.