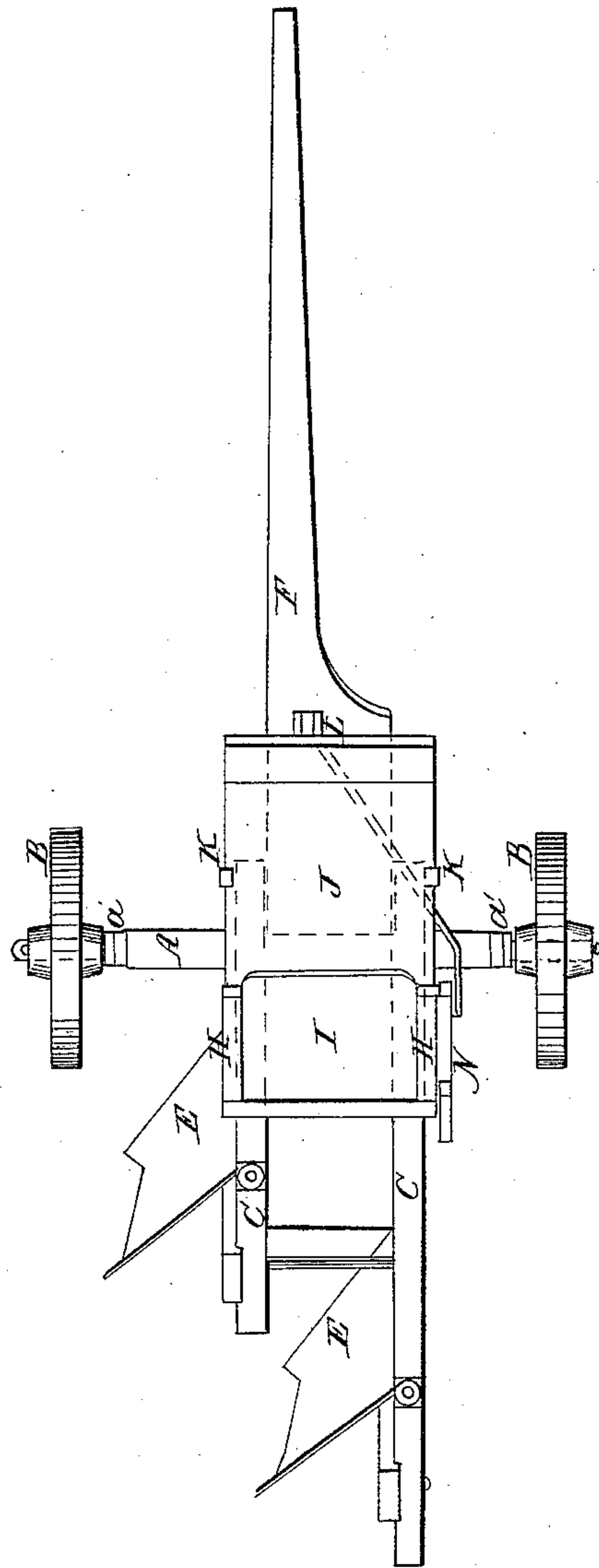
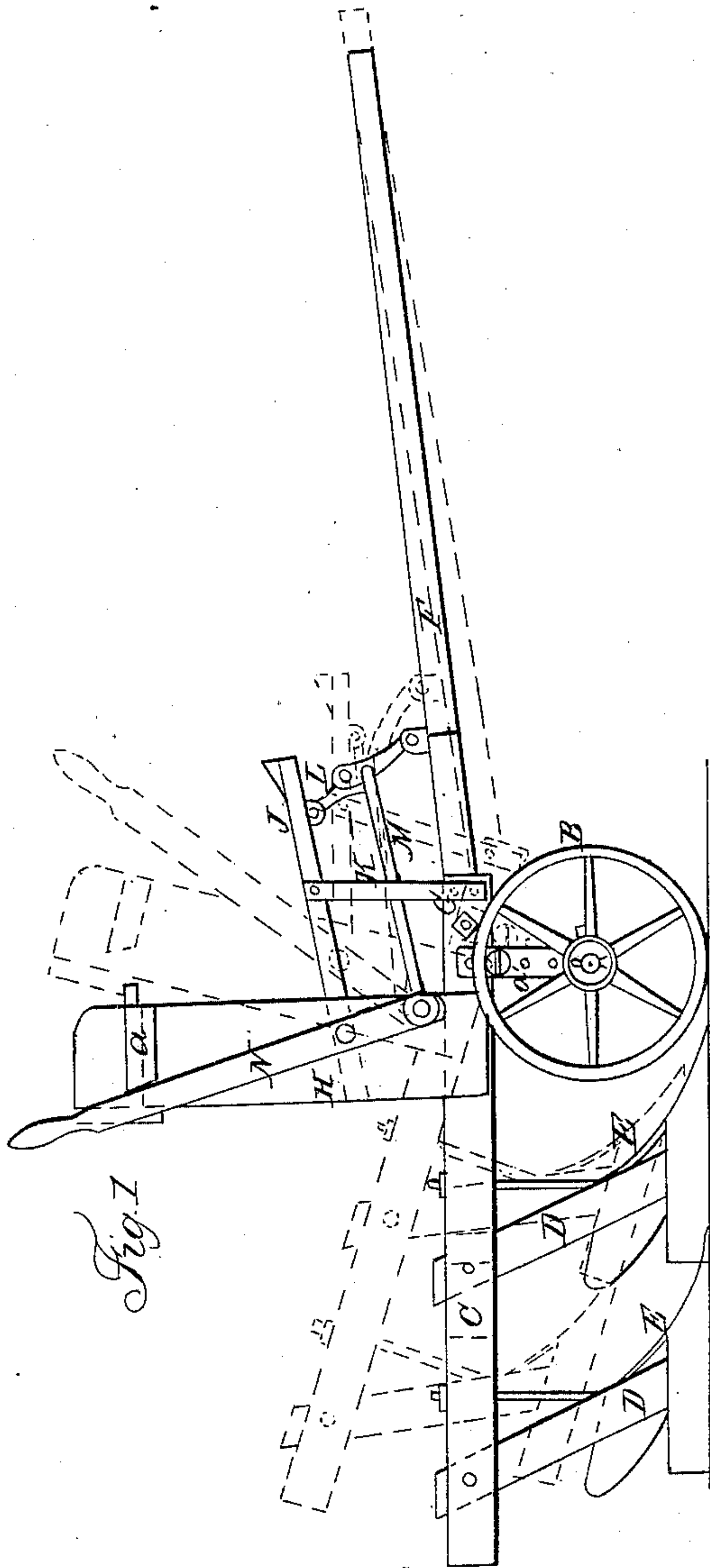


J. F. & W. L. BLACK.

Gang-Plow.

No. { 1,954, }
{ 32,958. }

Patented July 30, 1861.



Witnesses;
J. L. Coombs
M. J. Thompson

Inventors,
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Attorneys

UNITED STATES PATENT OFFICE.

J. F. BLACK AND W. L. BLACK, OF LANCASTER, ILLINOIS.

IMPROVEMENT IN GANG-PLOWS.

Specification forming part of Letters Patent No. 32,958, dated July 30, 1861.

To all whom it may concern:

Be it known that we, J. F. BLACK and W. L. BLACK, of Lancaster, in the county of Cass and State of Illinois, have invented a new and Improved Gang-Plow; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a side elevation of our invention; Fig. 2, a plan or top view of the same.

Similar letters of reference indicate corresponding parts in the two figures.

This invention relates to an improved gang-plow, which is designed to be drawn by a team.

The object of the invention is to facilitate the turning of the implement, and at the same time obtain a device which will perform its work in a thorough manner. To this end the parts of the plow are so arranged that the plow-beams and plows may be elevated and the plows raised by the driver above the surface of the ground with the greatest facility, and the plow-beams, when the implement is at work, rendered capable of being secured to the draft-pole, or connected thereto in such a manner as to prevent the casual rising of the plows from the earth.

To enable those skilled in the art to fully understand and construct our invention, we will proceed to describe it.

A represents an axle, and B B wheels thereon.

C C are two parallel bars, which are permanently attached to the axle A, the front ends of the bars C projecting a short distance in front of the axle. The bars C C form plow-beams, each beam having an inclined foot, D, attached, to which a turn-plow, E, is secured, one plow being in advance of the other, and the back one turning a slice, which adjoins or laps on the one turned by the front share.

Between the front ends of the bars or beams C C the draft-pole F is secured by a bolt, G; and H H are two uprights, which are secured to the front parts of the bars C C and support the driver's seat I.

J is a foot-board, the back end of which is secured between the uprights H H, and is properly supported by uprights K K, which

are attached to the front ends of the bars C C—one to each.

L is a toggle, the lower end of which is attached to the back part of the draft-pole F, and the other end attached to the under side of the front part of the foot-board J, as shown clearly in Fig. 1.

M is a rod, the front end of which is attached to the toggle, and the back end to the lower part of a lever, N, which is secured to the right-hand upright H, said upright having a catch, a, at its upper end to hold the upper part of lever N in a backward position. When the upper end of lever N is held in a backward position, the toggle L is kept perfectly straight, and the foot-board J is prevented from approaching the draft-pole F, and the plows E E are thereby retained in the earth and made to perform thorough work. On arriving at the ends of the furrows, where it is necessary to turn the plow, the driver throws forward the upper end of lever N and at the same time throws his weight forward on the foot-board J, and the plows will consequently be elevated above the surface of the ground, the toggle L by this movement drawing down the foot-board J, as shown in red, Fig. 1. In order to adjust the plows in the ground, the driver draws back the upper end of lever N, and at the same time throws his weight back on seat I.

In order to regulate the depth of the penetration of the plows E, the arms of the wheels B B may be attached to plates a' a', between which the axle A may be adjusted higher or lower, as desired.

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

The toggle L, with lever N attached, draft-pole F, foot-board J, driver's seat I, plow-beams C C, and axle A, combined and arranged to operate as and for the purpose herein set forth.

J. F. BLACK.
W. L. BLACK.

Witnesses:

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