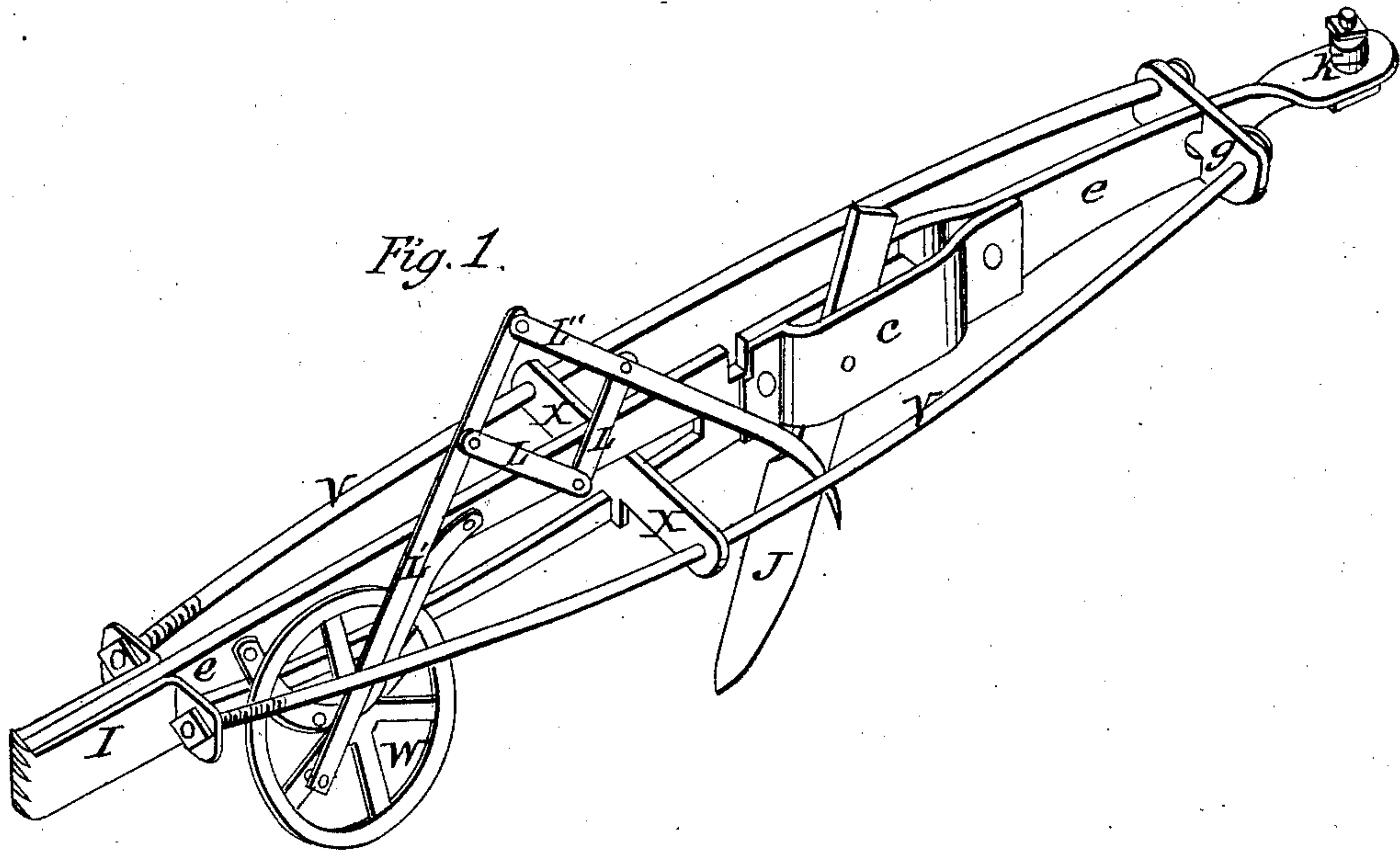


E. T. FORD.  
Plow-Cleaner.

No. 35,147.

Patented May 6, 1862.



*Witnesses.*  
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# UNITED STATES PATENT OFFICE.

ELIAS T. FORD, OF STILLWATER, NEW YORK.

## IMPROVED PLOW-BEAM.

Specification forming part of Letters Patent No. 35,147, dated May 6, 1862.

*To all whom it may concern:*

Be it known that I, E. T. FORD, of Stillwater, in the county of Saratoga, in the State of New York, have invented a new and useful Improvement in a Truss Plow-Beam, to be used for plowing land; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and letters of reference marked thereon, making a part of this specification, in which—

Figure 1 is a perspective view of the beam and clover-cleaner with colter J.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

Construction of Fig. 1: I take the section *g*, as seen at the rear, united to the center-bar, *e*, there being slots cut within each part for the adjustment of the same. I now insert the front section, *I*, formed with two flanges upon the front extremity of the center bar, *e*. The cross-bar *X* is located between the aperture of center bar, *e*. A slot is cut at the center and upon the under side of cross-bar *X X*, so as to prevent it from moving right or left by rods *V V*. The section *c c* is so formed as to receive the colter *J* and main bolt that connects the beam to the standard of the plow, and is attached to the side of center bar, *e*, and retained by two bolts. The rear bolt, *K*, is used to connect the beam to the change-iron at the rear, which is usually used upon plows. The two side rods, *V V*, are formed with a head each at the rear ends, and with movable nuts at the front ends of each. They are inserted through the orifices of the rear section, *g*, extending forward through the two orifices of the cross-bar *X X*, and also through the flanges of front section, *I*, as seen, arranged with and located upon the center bar, *e*. A tension is effected upon the two rods *V V* by turning up their front nuts. The front section, *I*, is secured to the center bar, *e*, by two bolts passing through the section and each prong of center bar, *e*, at the forward end.

The clover-cleaner, which is used to remove the clover and stubble from the colter or the plow, is composed of four pieces, 4, and the pieces 4 4 are connected to each other by four bolts, situated upon the parts 4' 4'' 4 4 equidistant, and answering as centers in the movement, two of the pieces, 4' 4'', are longer than the other two. The rear piece, 4'', extends back to the rear of colter *J*, being a little curved. The front piece, 4', extends forward to and is connected to the wrist of gage-wheel *W*. The wrist is situated from two to three inches from the center or axle of the gage-wheel *W*. The lower extremities of the short pieces 4 4 are connected to the center bar, *e*, by a wrist, which permits the movement of the pieces 4 4 as a center.

Operation: The adjustment of the beam, as seen in Fig. 1, to the plow for two or three horses is effected by the bolt *K* upon the change-iron in rear, and the change-iron is united to the handles of the plow. The bolt *K* is slackened, and then the rear portion of the beam is moved either to the right or left, and then retained in either position by the bolt *K*. The movement of the clover-cleaner is produced by the revolution of the gage-wheel *W*, causing a contraction and expansion of the parts mentioned and the rear curved piece, 4'', is made to move in that peculiar manner at the side of the colter *J* or the front of the standard of the plow, so as to remove the clover or other like material continually from the same.

What I claim as my invention, and desire to secure by Letters Patent, is—

The peculiar arrangement and construction of a truss plow-beam, consisting of the sectional parts, the rear section, *g*, front section, *I*, cross-bar *X*, the side rods, *V V*, and the double box *c c*, as connected to the center bar, *e e*, the whole combined as described, and represented in the drawings.

E. T. FORD.

In presence of—

M. W. HEWITT,  
F. M. DINGMAN.