

S. Way.
Gang-Plow.

No 73480

Patented Jan. 21, 1868.

Fig. 1.

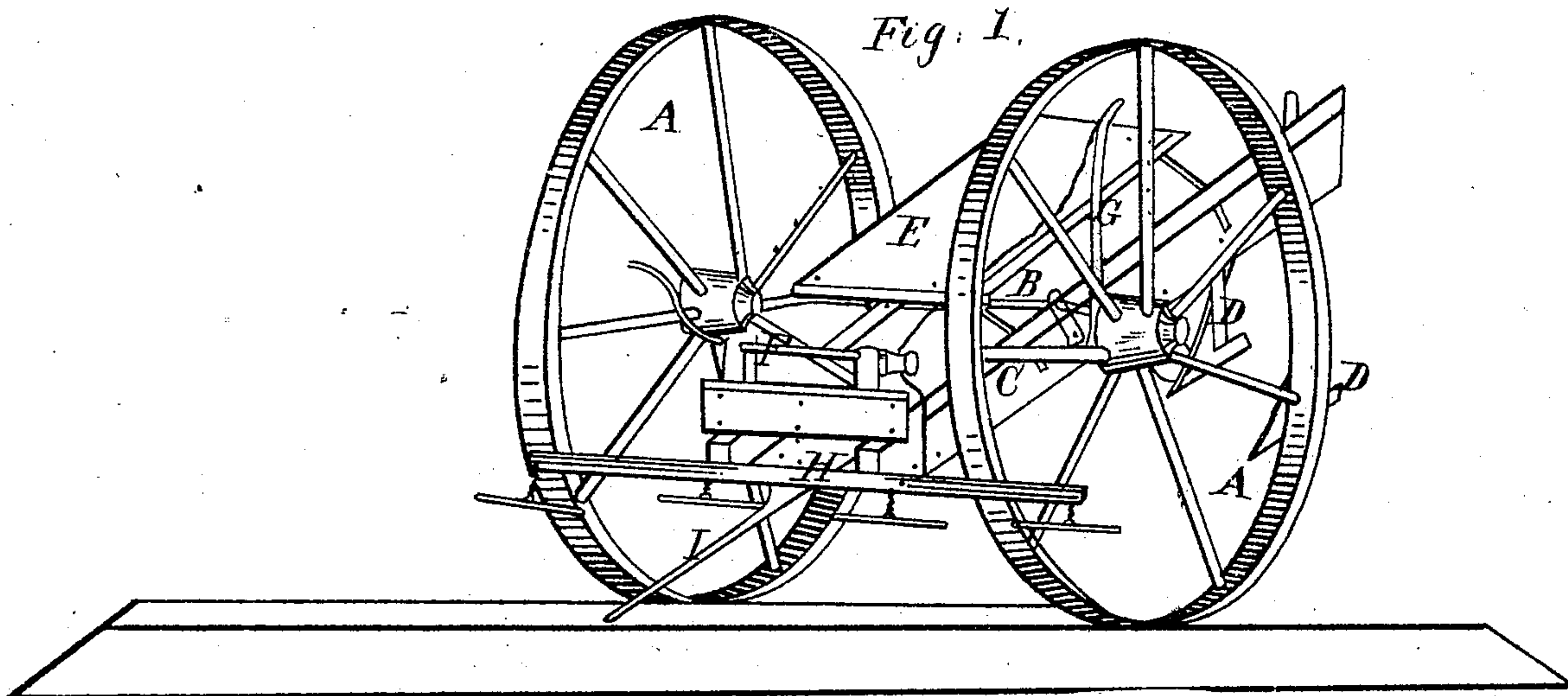
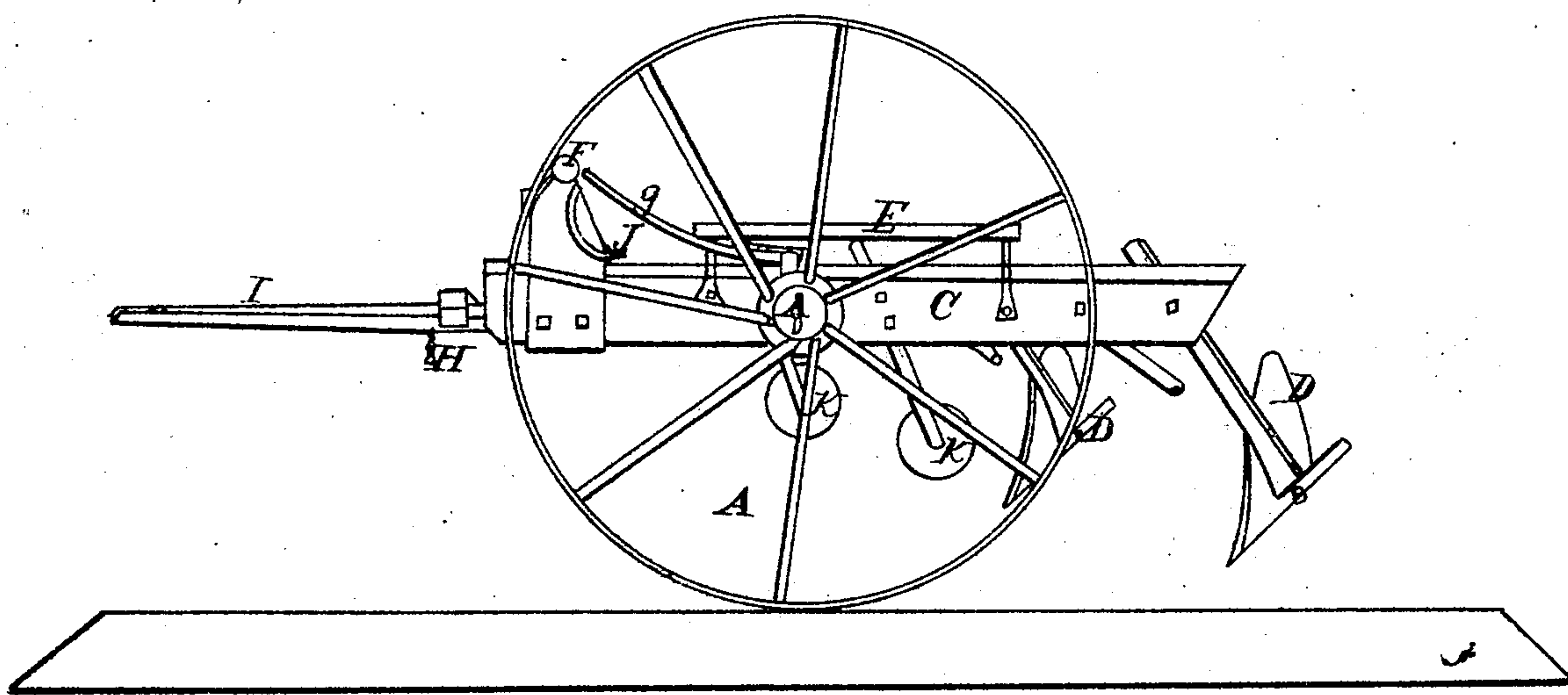


Fig. 2.



Witnesses:

Robert A. Harris.
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Inventor:

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United States Patent Office.

SETH WAY, OF LA PORTE, INDIANA.

Letters Patent No. 73,480, dated January 21, 1868.

IMPROVEMENT IN GANG-PLOUGHS.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, SETH WAY, of La Porte, in the county of La Porte, and State of Indiana, have invented a new and useful Improvement in Gang-Ploughs; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a perspective view, and

Figure 2 is a side elevation.

My improvement relates to that class of ploughs which are suspended upon wheels, and the points on which I have made my improvements on former machines will appear from the claims hereinafter to be set forth.

In the drawings, A A are the wheels, attached to the axle B, upon which is swung the frame C, by stirrups, in such a manner as to give the axle B from stationary to two inches play, as desired, on the frame C, so that when the wheels A A pass over anything rough, the ploughs D D are not directly affected. The axle B, on the land-side, has eight inches crook, and on the furrow-side, four, which gives the depth of the furrow four inches, and makes the wheels level when in operation. When ploughing deeper, the depth to be levelled by the stirrups. E is the seat, and is fastened to the frame C in such a manner that the position in which the driver sits upon the same keeps the ploughs D D level, and makes the rolling-cutters K K work in a proper manner. D D, the ploughs, attached to frame C by standards, which may be either wood or iron, and with a brace attached forward of standard to the frame C, and passing through, or with a fork on either side of standard, and fastened with a wooden pin in such a manner, so that, in case the ploughs D D come in contact with a stone or root, the pin is broken, and the ploughs D D instantly fly back, and nothing is injured. F is the windlass. G is the lever, which is attached to the land-side of the axle B, and which is regulated by the windlass F. By winding the same, the axle B is reversed, and the ploughs D D thrown out of and free from the ground, and the depth of the ploughs D D is also regulated thereby. The ploughs D D are lowered to the ground instantly by the driver stepping or pushing upon the catch J, which holds the windlass F from flying back, and the weight immediately reverses the windlass F and axle B, and the ploughs D D are instantly lowered. H is an equalizing double-tree or evener, either for three or four horses, the length of which is nine feet for four horses, or six feet for three horses. The whiffle-trees, attached to chain, which works on rollers in equalizing double-tree H, playing on a half-inch bolt, in such a manner that each horse has his equal proportion of the draught. I is the tongue, which is attached to forward end of the frame C by bolt, in such a manner that when the ploughs D D are in the ground, it works loose and free, and when the ploughs D D are elevated, the weight is supported by the tongue I, which acts as a lever upon a bolt at the end, and above the said tongue I, fastened to the frame C in such a manner that the driver may bring the weight of the ploughs D D and frame C upon the said tongue I, which is supported by the neck-yoke attached to the horses, and is attached to the frame C, so that one horse walks directly in the furrow and the others upon the land. K K are the cutting-rollers, attached to the frame C in such a manner that they draw, instead of push, as is the usual mode, and they cut the stubble and grass with more ease and less draught. They are so attached by a slotted bar, that may be elevated or lowered, as desired.

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

1. The mode of supporting the weight by the tongue I, and of elevating and lowering the ploughs D D by the axle B, lever G, windlass F, and catch J respectively, constructed and arranged substantially as set forth.
2. The combination of the axle B, lever G, windlass F, tongue I, and equalization double-tree H, respectively, constructed and arranged substantially as set forth.

In testimony whereof, I have hereunto signed my name to this specification in presence of two subscribing witnesses.

SETH WAY.

Witnesses:

ROBT. A. HEWS,
JAMES A. HEWS.