O. F. MOMANY.

Roller Grain Drill.

No. 90,770. Patented June 1, 1869.

Fig: 1.

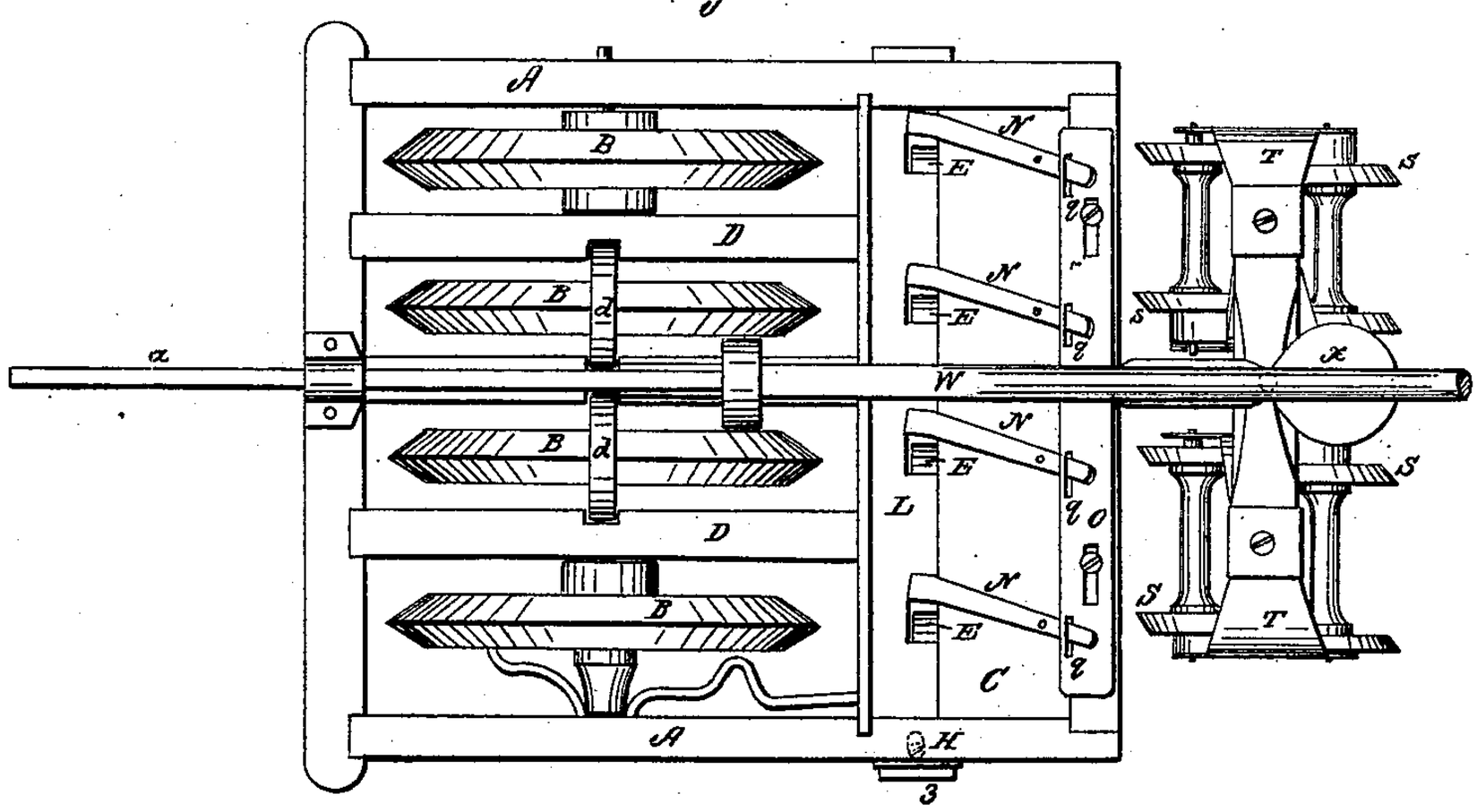


Fig: 2.

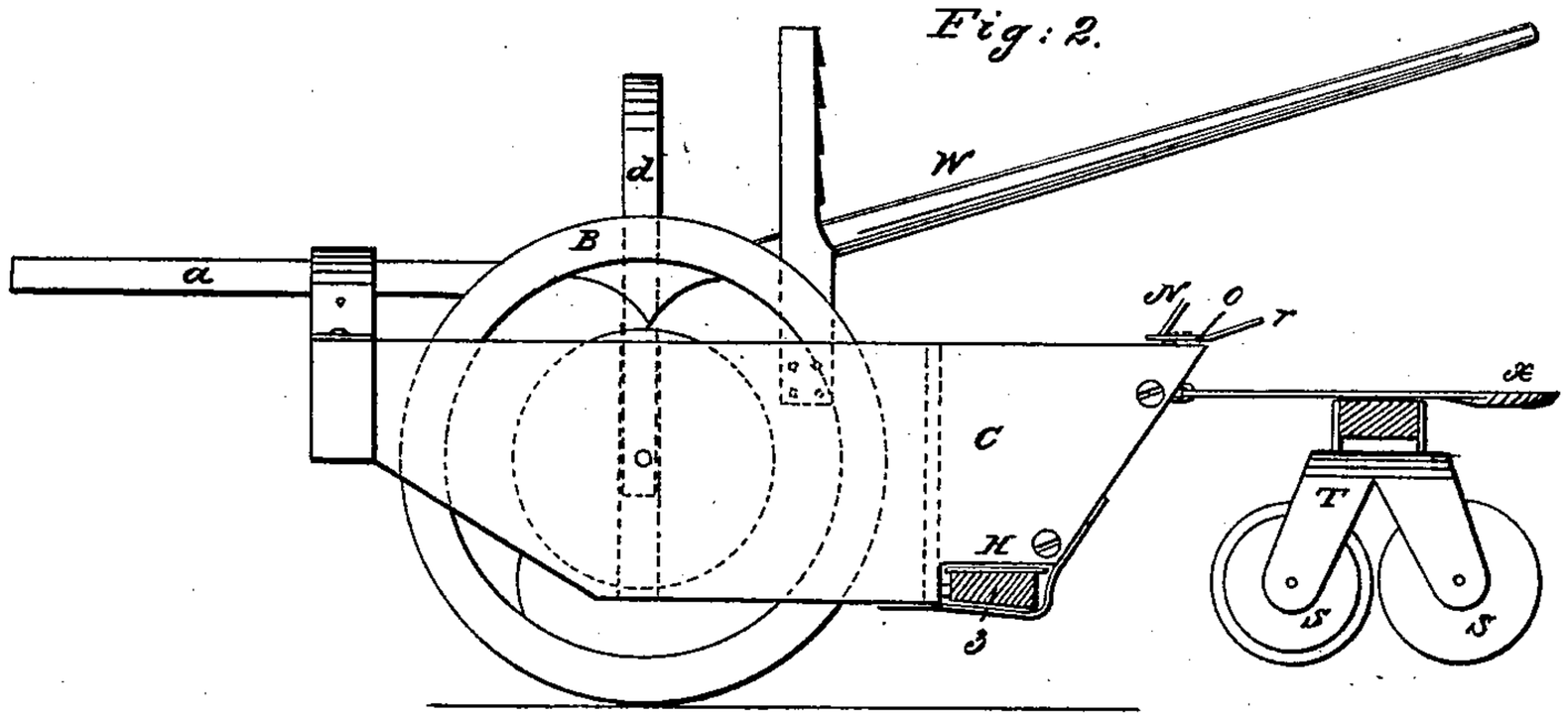
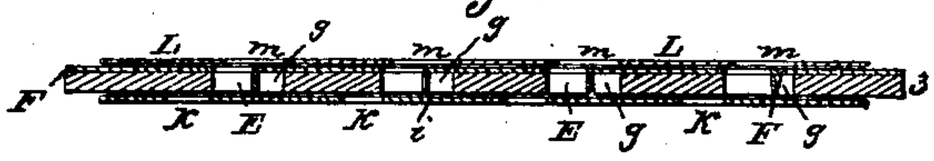


Fig: 3.



United States Patent Office.

OLIVER F. MOMANY, OF DOWAGIAC, MICHIGAN.

Letters Patent No. 90,770, *dated June* 1, 1869.

IMPROVEMENT IN ROLLER GRAIN-DRILL.

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, OLIVER F. MOMANY, of Dowagiac, in the county of Cass, and State of Michigan, have invented a new and improved Roller Grain-Drill; and I do hereby declare that the following is a full and exact description thereof, reference being had to the annexed drawings, and to the letters of reference marked thereon, in which—

Figure 1 is a side view;

Figure 2 is a rear view of the coverers;

Figure 3 is a longitudinal view through the diameter of the grain-bar, showing the pockets; and

Figure 4 shows the arrangements of the slides for shutting off the grain.

The nature of my invention consists in arranging a more simple and convenient machine for sowing grain in drills.

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

A is the main frame, embracing the wheels B, and forming, in part, the hopper C.

These wheels are formed with V-shaped peripheries, for forming the drills, and are made with or without spokes.

The two outside wheels, 1 1, support the frame A. The intervening wheels, of which there may be any number desired, are hung in separate sliding frames, *d*, and are free to work up and down in the gains or grooves 2, in the partition-pieces D of the frame A, so as to conform to the uneven portions of the ground, and may be provided with springs, in order to compel each wheel to support a portion of the weight of the frame A.

One of the outside wheels 1 is provided with the cam and oscillating lever, for the purpose of working the feed-bar 3, containing the adjustable measuring-pockets E.

The top of bar 3 is covered with a movable slide, *f*, and is cut out over the pockets, and the lip G is bent down into the pockets, by which the pockets are diminished or extended as the slide *f* is moved.

The set-screw H is to hold said slide, when in the desired position, to make the pockets large or small, thus governing the amount of grain sown without changing the motion of the feed-bar 3.

The stationary bar *i* forms the bottom of the pockets E when they are in position to fill with grain from the hopper C, but has openings, at *k*, over which the pockets slide, and discharge their contents into the drill.

A similar bar, L, forms the bottom of the hopper C, with openings *m*, through which the grain passes to the pockets E, and covers the pockets while they are discharging.

N are levers pivoted to the side of the hopper C, having broad feet, for the purpose of covering the pockets when it is desirable to stop the discharge.

O is a slide, attached to the top of the hopper in any suitable manner, to allow it to move endwise, having long slots, through which the levers N project, and is actuated by the handle *r*, for the purpose of opening or closing all of the pockets at once; or a single pocket may be closed or opened by moving one of the levers N, the slot *q* being long enough to allow of such movement without disturbing the other levers. Thus one or more of the pockets can be closed in case a strip of land narrower than the whole width of the machine is to be sown.

S are "rolling" coverers, formed of bevel-faced wheels, set in pairs, with a wheel upon each side of the drill-furrow, with their "bevelled" faces inward, so as to press the dirt displaced by the V-shaped wheels B back into the drill, thus covering the grain in the most effectual manner.

The pedestals T are so arranged as to let the coverers S work independent of each other.

X forms the driver's seat and connection by which the covering-arrangement is attached to the rear of the frame A, and should be of such length as will cause the covering-wheels S to follow the drills when the machine is moving on a circle.

W is a lever, for the purpose of raising and lowering the tongue *a*.

Having thus described my invention,

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

1. The construction and arrangement of the frame A and hopper C, in combination with the wheels B, sliding frames *d*, and lever W, as and for the purposes specified.

2. In combination with frame A, wheels B, hopper C, and the frames *d*, the construction and arrangement of slides *f* and O, the bars *i* and 3, levers N, and handle *r*, and the arrangement of the coverers S, in combination with the pesdestals T T, driver's seat X, all as and for the purpose specified.

In testimony that I claim the foregoing, I have hereunto set my hand, this 1st day of October, in the year 1868.

OLIVER F. MOMANY.

Witnesses:

S. H. WHEELER,

S. BOWLING.