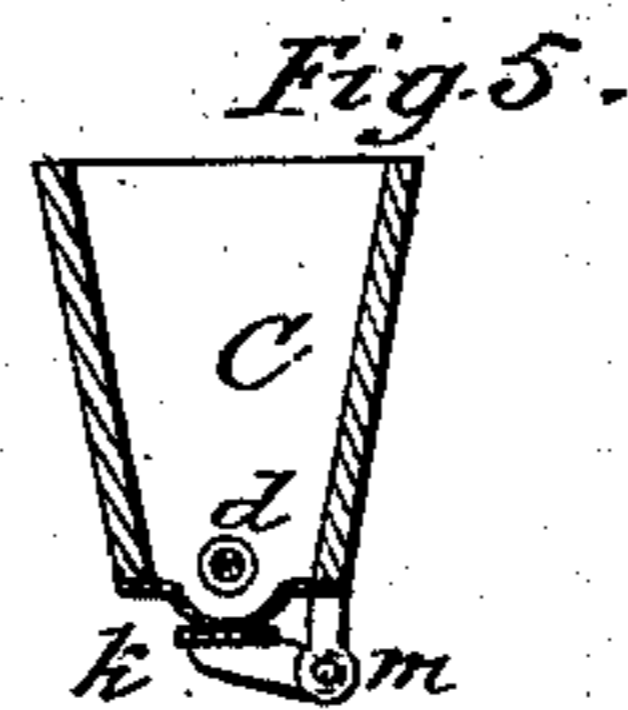
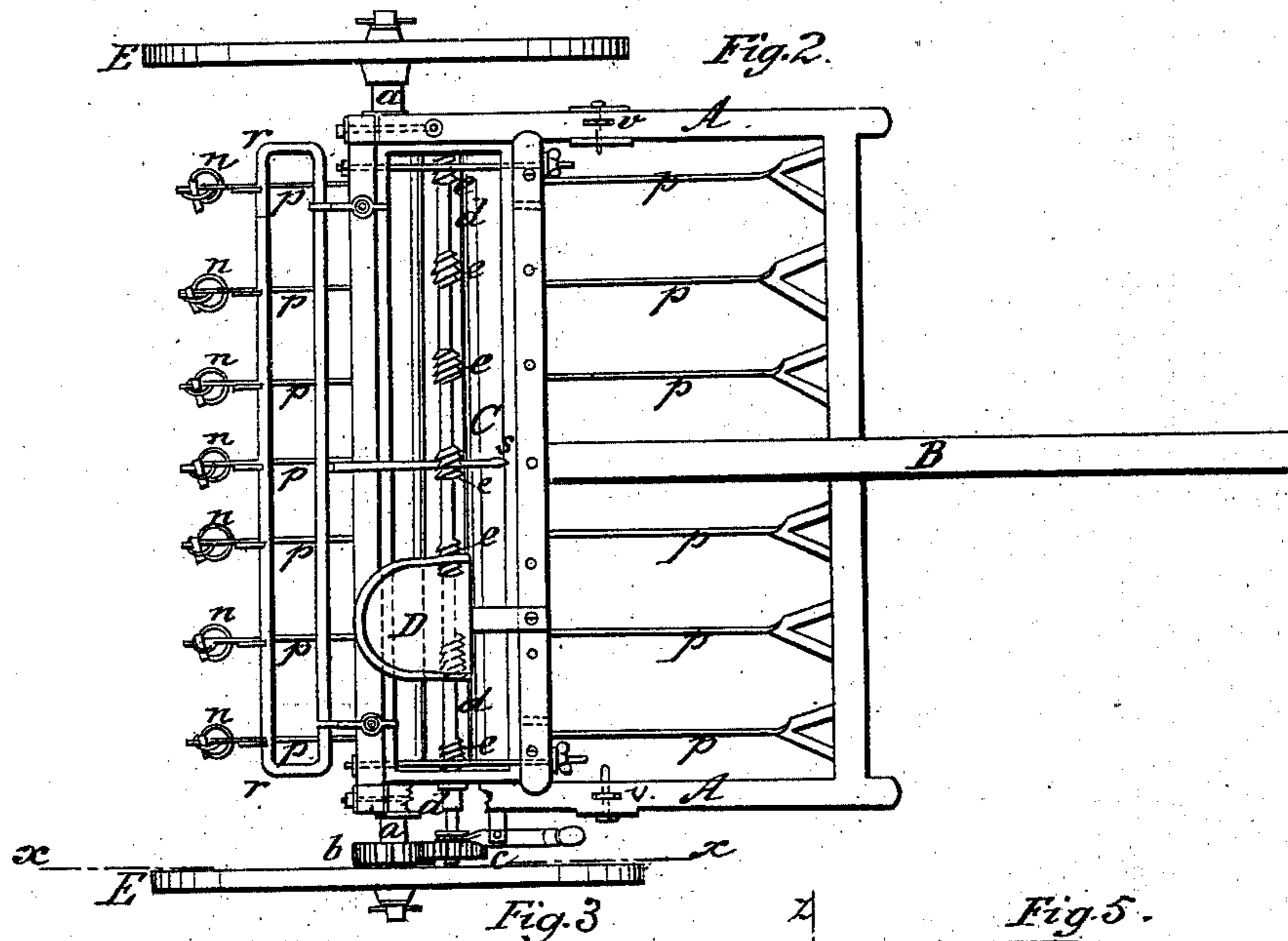
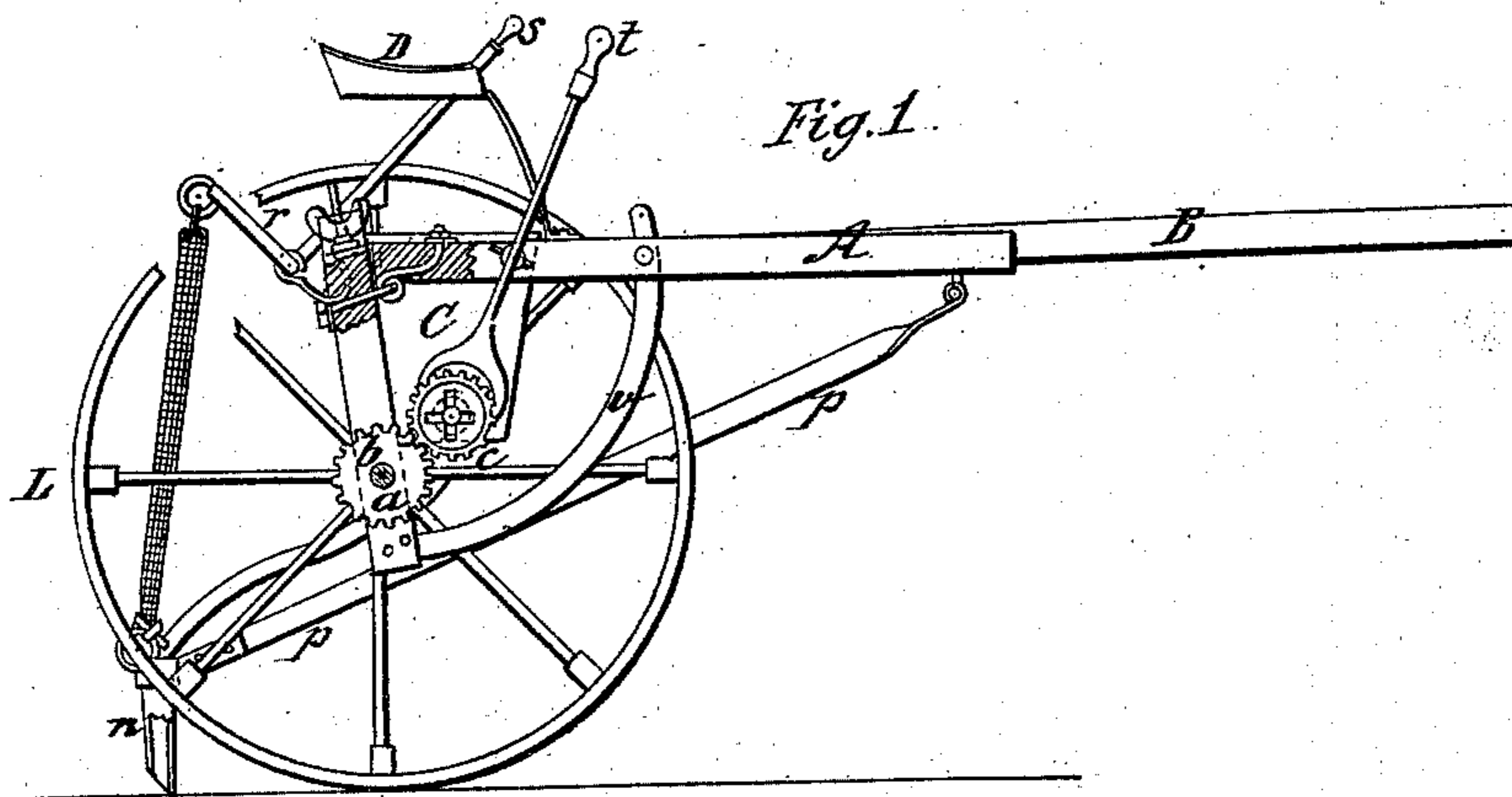


Grain Drill.

Patented Feb. 12, 1867.



Witnesses
Thco. Fusch
Wm. Jewin.

Inventor.
Jacob Slander
Per Mumt & Co
Attorneys

United States Patent Office.

JACOB SLAUDER, OF OSBORN, OHIO, ASSIGNOR TO HIMSELF AND LEVI C. SMITH, OF SAME PLACE.

Letters Patent No. 62,079, dated February 12, 1867.

IMPROVEMENT IN WHEAT 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, JACOB SLAUDER, of Osborn, in the county of Green, and State of Ohio, have invented a new and improved Wheat Drill; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a vertical section of the wheat drill of my invention, taken in the line $x x$, fig. 2.

Figure 2 is a top view of the same.

Figure 3 is a longitudinal section of the seed-hopper, taken in the line $y y$, fig. 4.

Figure 4 is a bottom view of the seed-hopper.

Figure 5 is a transverse section of the same, taken in the line $z z$, fig. 4.

Similar letters of reference indicate like parts.

This invention relates to an improved machine for sowing wheat and other small grain or seeds in drills, and consists in arranging positive gearing in connection with the driving-wheels of a truck, and an endless screw for feeding the wheat or other grain with certainty and regularity in just the desired quantity from a hopper. The machine is drawn by a double team, and is entirely under the control of the driver, who rides upon it when operated.

A A represents a strong rectangular truck-frame, the sides of which are supported by curved braces $v v$. B is the draught-pole running back to the hopper C, which is a deep trough or box running across the truck, made broad at the top and narrow at the bottom. D is a driver's seat, elevated above the hopper. E E are the driving-wheels. On the axle a , inside of one of the driving-wheels, is placed a small spur-wheel, b , which engages in a pinion, c , fixed on the end of a shaft, d , which runs longitudinally through the hopper C, near the bottom, to be revolved by the motion of the driving-wheels. The shaft d is thrown in and out of gear by a side lever, t , which engages and disengages with the gear-wheels $b c$, at the pleasure of the driver, when required to operate or stop the drilling of the grain. At regular distances apart short worms or screw-threads $e e e$ are placed upon the shaft d , directly over openings $i i i$ in the bottom of the hopper, for the wheat or other grains to pass through, which openings are made adjustable in size by a long flat slide $k k$, lying flat on the bottom of the hopper, and moved back and forth to cover more or less of the openings $i i i$, as desired, by means of a screw, m , attached to the hopper and the slide. When the shaft d turns as the machine is driven in the field, the grain in the hopper is stirred by the screws $e e e$, and forced in regular quantity through the openings $i i i$, whence it falls into flexible pipes or hose, indicated in red, fig. 1, and is conveyed to ordinary wheat scores $n n n$, which are attached to drag-bars $p p$ connected with the front bar of the truck-frame A. The scores $n n n$ are suspended in the usual way to a lifting frame, $r r$, that is hung upon the back of the hopper C, which frame is raised and lowered at pleasure by means of a lever, s , placed conveniently for the driver to reach and handle when the drill is at work.

Having described the construction and operation of my invention, what I claim as new, and desire to secure by Letters Patent, is—

I claim the shaft d , with the worms or screws e over the openings i in the bottom of the hopper C, in combination with the gear-wheels $b c$ and one of the driving-wheels E, constructed, arranged, and operating substantially as and for the purposes herein described.

JACOB SLAUDER

Witnesses:

CHRISTIAN KAUFFMAN, Jr.,

J. HENRY COLE.