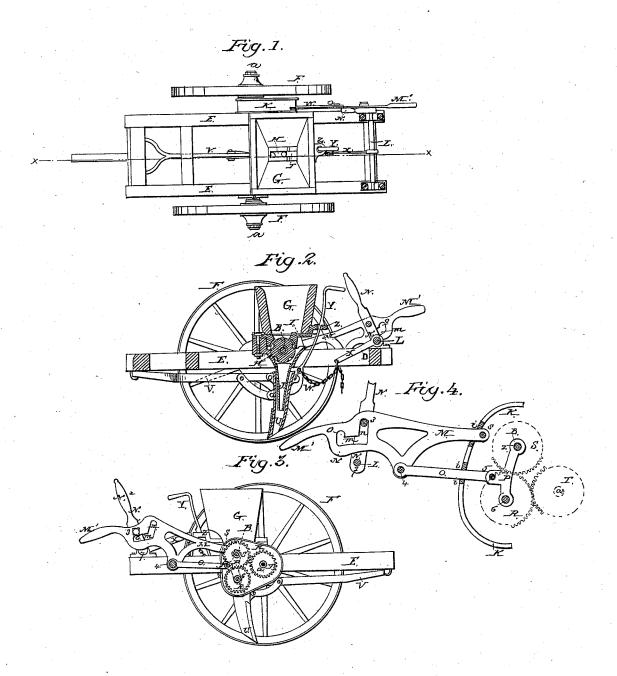
No. 7,268.

Patented Apr. 9, 1850.



## UNITED STATES PATENT OFFICE.

JACOB PEIRSON, OF WILMINGTON, DELAWARE.

## IMPROVEMENT IN GEARING FOR SEED-PLANTERS.

Specification forming part of Letters Patent No. 7,268, dated April 9, 1850.

To all whom it may concern:

Be it known that I, JACOB PEIRSON, of the city of Wilmington, in the county of New Castle and State of Delaware, have invented a new and useful Improvement in my"Patented Seed-Drills," which is described as follows, reference being had to the annexed drawings of the same, making part of this specification.

Figure 1 is a top view of a machine containing only one drill-tooth, it being evident that any required number of teeth may be used. In this view the cogged gearing is concealed by the case. Fig. 2 is a vertical longitudinal section of the same on the line x x of Fig. 1, the intermediate cog-wheel being in gear and the drill-tooth raised and suspended above the surface of the ground by the hook-rod. Fig. 3 is a side elevation, showing the drill-tooth raised and the intermediate cog-wheel out of gear with the cog-wheel on the hub of the large supporting and propelling wheel, the front plate of the case being removed in order to show the cog-wheels. The tongue to which the horses are attached is not shown. Fig. 4 is an elevation of the latch-plate, carrier, and connecting-plate detached from the case and drawn on an enlarged scale, the lever-latch M being depressed and the intermediate cog-wheel, R, being represented by dotted lines as in gear with the cogwheel T on the propelling-wheel F.

Similar letters in the several figures refer to

corresponding parts.

I construct the drill substantially as described in my patent of 1849, except the case K, lever-latch M, connecting-plate O, and carrier P, which I make as follows: The case K is made of cast metal about three-sixteenths of an inch thick, more or less. In the edge of the case, next the handles, are made two openings, i i, to admit the latch and connecting-plate. On one end of the rock-shaft and lift-ing-bar L, I place a holding-lever, N. The slotted latch-plate M and connecting-plate O are made of strong metal or other suitable material. The carrier P is made of cast metal or other suitable material, cored out to receive the end of the roller-shaft B. One end of the latch-plate M works on a round stud, s, inserted into the case K. An angular-shaped slot, m n o, is made through the said latchplate. The segmental part of the slot at n is

s. The part of the slot marked m is scribed from the center of the lifting-bar L when the latch-plate is raised to nearly a horizontal position. Said slot admits the bolt or stud 3 in the lever N to pass freely through the same. One end of the connecting-plate O is attached to latch-plate at 4 by a bolt and stud, and the other end, after passing through the slot iin the case K, is attached to carrier P by a bolt or stud, 5, passing through the carrier. The carrier P swings or works freely on the end of the seed-roller shaft B in the space between the spur-wheel S and the inner side of the case The intermediate wheel, R, runs loosely on the stud 6. By raising the handle or rear end, M', of the latch-plate M the intermediate wheel, R, is thrown out of gear with the cogwheel T on the propelling-wheel and the seedroller stopped, and by drawing back the upper end of the handle N2 of the lifting-bar L in the arc of a circle the seed-tubes are raised out of the ground, and an opposite effect is produced by a contrary action. The motion of the carrier P and lifting-bar L being alternate, the seeding-cylinder and drill-teeth are thrown in and out of gear alternately and not simultaneously, as in Pennock's machine and in others.

E is the frame for containing and supporting the several parts, made in the usual man-

ner.

F are the sustaining and propelling wheels, turning on my patented axles.

G is the hopper.

H is the seeding-cylinder.

I is the slide valve in the lower part of the

J is the flexible conducting-tube; U, tubular drill-tooth.

V is the beam to which the tubular drilltooth is attached, said beam having its forward end attached to the frame and its rear end to the lifting arm by a chain, W.

X is the lifting-arm, projecting at right angles from the lifting bar L, for lifting the drill-

The last-named parts are made and arranged as in my patented machine, and of course are not intended to be claimed in this application.

Y is the lifting and suspending rod for lifting the drill-tooth by hand and suspending it struck or scribed from the center of the stud | to a mortised shelf, Z, fastened to the rear side of the hopper, the hook portion of said rod | resting upon said shelf Z when the drill-tooth |is raised.

The before-described arrangement of cogged gearing may be used with or without the case K.

I wish it to be distinctly understood that I do not claim the alternate motion by which the seed-tubes and seed-rollers are thrown in and out of operation; but

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

The employment of the latch-plate M, in com-

bination with the connecting-plate O, carrier P, and intermediate cog-wheel, R, for alternately gearing and ungearing the cog-wheel S on the axle of the planting-cylinder with the cog-wheel T on the hub of the driving-wheel

F, in the manner and for the purpose described.
In testimony whereof I have hereunto signed my name before two subscribing witnesses.

JACOB PEIRSON.

Witnesses:

I. T. Robinson, Joshua L. Pusey.