(No Model.)

C. W. & E. JESCHKE.

DITCHING MACHINE.

No. 526,864. Patented Oct. 2, 1894.

Fig. 1.

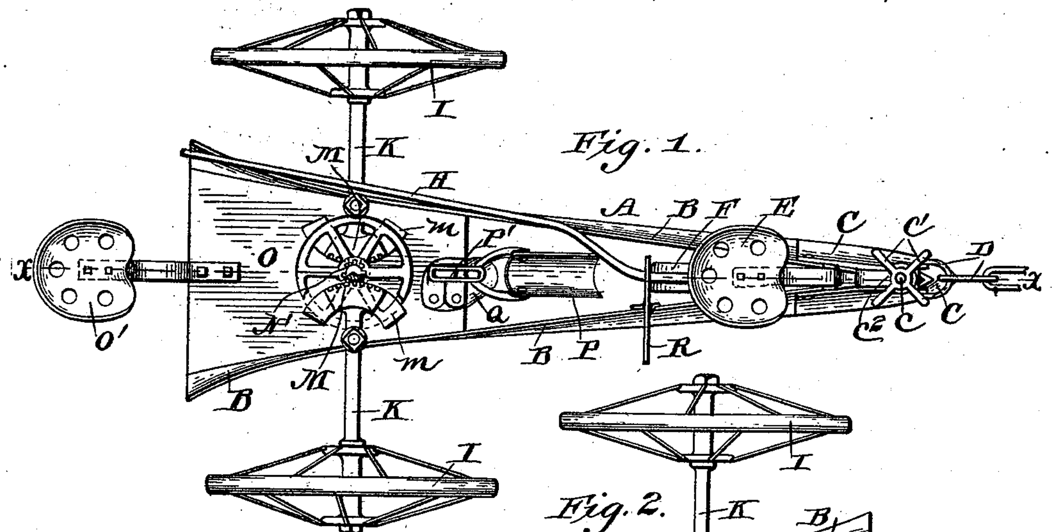


Fig. 2.

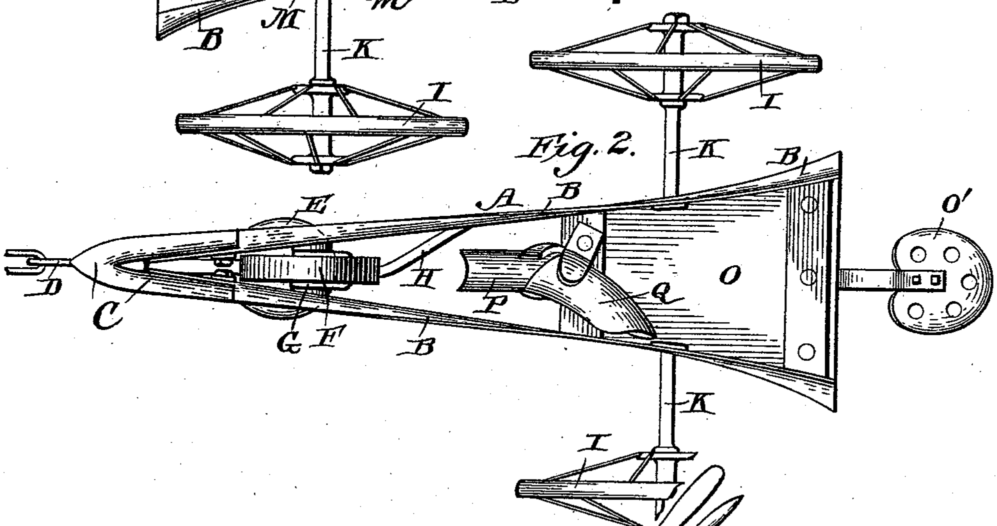
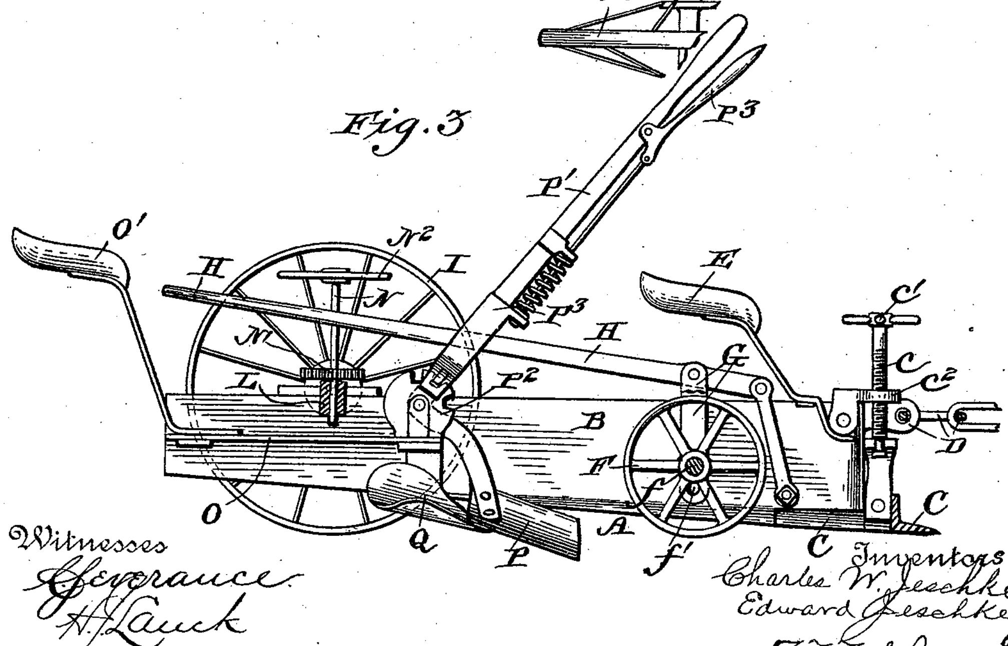


Fig. 3



Witnesses
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

CHARLES W. JESCHKE AND EDWARD JESCHKE, OF VICKERY, OHIO.

DITCHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 526,864, dated October 2, 1894.

Application filed March 19, 1894. Serial No. 504,218. (No model.)

To all whom it may concern:

Be it known that we, CHARLES W. JESCHKE and EDWARD JESCHKE, citizens of the United States, residing at Vickery, in the county of Sandusky and State of Ohio, have invented certain new and useful Improvements in Ditching-Machines; and we do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to an improvement in ditching plows or machines, or a machine for making ditches to receive a series of drain tiles.

The objects of our invention are to provide a machine which can be quickly and easily adjusted to regulate the depth of the ditch, and also one that can be accurately guided, or made to run in a very small space.

With these objects in view our invention consists in the peculiar construction of the several parts and their novel combination or arrangement as will be more fully hereinafter described, illustrated in the drawings and particularly pointed out in the claims hereunto appended.

In the drawings forming a part of this specifications Figure 1 is a top plan view. Fig. 2 is a bottom plan view, and Fig. 3 is a vertical longitudinal section.

In carrying out our invention we employ a wedge shaped body portion A composed of the side boards B, B, said side boards being shaped like the mold boards of a plow and adapted to turn the earth away from the body proper. At the forward end of said body A is pivoted a point C, said point being adjusted vertically by means of a screw c operated by the hand wheel c', said screw passing through a threaded arm c^2 attached to the forward upper end of the body A so that by turning the hand wheel the point C is either raised or lowered, as desired. D indicates a clevis of any approved construction, and a short distance back of the hand wheel c' is arranged a driver's seat E.

The forward end of the body A is supported by a gage wheel F which is journaled between the arms G, G, attached to a lever H, the forward end of said lever being connected to the body near its forward end, while the rear end of the lever extends toward the rear end of the machine. The axle f of the gage wheel works in the slotted guide plates f', f', attached to the inner sides of the mold boards, so that the wheel F always has a definite and uniform adjustment.

The rear end of the machine is supported by the wheels I, I, journaled upon the outer ends of the axles K, K, said axles being pivoted near their inner ends to a cross piece L connecting the side boards B, B. The inner ends of the axles K, K, are provided with the toothed segments M, M, and between them is journaled a shaft N carrying a gear N′ which engages with the segments, and as this shaft is revolved by the hand wheel N^2, the axles K, K, and consequently the wheels I, I, will be moved in opposite directions, so that the steering of the device can be easily accomplished. m, m, indicate rest plates upon which the ends of the axles move.

A platform O is arranged between the side boards B, B, at their rear ends, said platform being adapted to carry the drain tiles, and at the rear end of the same is arranged a seat O′. At the forward end of this platform is pivoted a scoop P by means of which the ditch or trench is scooped out or deepened, said scoop having a handle or lever P′ rigidly connected thereto, and by means of which the scoop can be raised or lowered to any desired angle. To lock the scoop in any desired adjustment we employ the toothed segment P^2 and hand lever P^3 adapted to engage therewith. Just to the rear of the scoop P and beneath the platform O is arranged a mold board Q the purpose of which is to receive and throw to one side the earth excavated by the scoop.

R indicates a gage standard by means of which the angle of the scoop can be determined and adjusted.

Now in operation the draft is attached to the clevis, and the point C having been adjusted the machine is ready for operation, and as it moves forward the scoop coming in contact with the ground leveled by the main body, a ditch or trench will be formed into

which tile can be laid from the rear platform. The plow point can be raised or lowered as desired, and by raising or lowering the lever H, the gage wheel F is raised or lowered and the depth of the furrow regulated. The scoop is also adjustable and all earth excavated will be thrown to one side by the mold plow Q to the rear thereof. By means of the hand wheel, gear and sectional axle provided with toothed segments, the machine can be used in a very small space.

Having thus described our invention, what we claim is—

1. The combination with the wedge-shape body, of the adjustable point and means for operating the same, the adjustable gage-wheel and operating lever, the adjustable scoop and lever, the mold-plow behind the scoop, and the sectional axles and steering gear connected therewith, as set forth.

2. The combination with the wedge-shape body of the point C, screw *c*, wheel *c'* and nut c^2, the gage-wheel F journaled in the slotted plates *f'*, *f'*, the arms and lever H, the adjustable scoop and means for regulating the same, and a mold-board plow arranged directly in the rear of the scoop and adapted to receive the dirt therefrom and carry it to one side, substantially as set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

CHARLES W. JESCHKE.
EDWARD JESCHKE.

Witnesses:
A. V. BAUMANN,
MAGGIE KEEFE.