(No Model.)

J. VAN HOSEN.

MACHINE FOR GATHERING STONES.

No. 373,110. Patented Nov. 15, 1887.

Fig. 2.

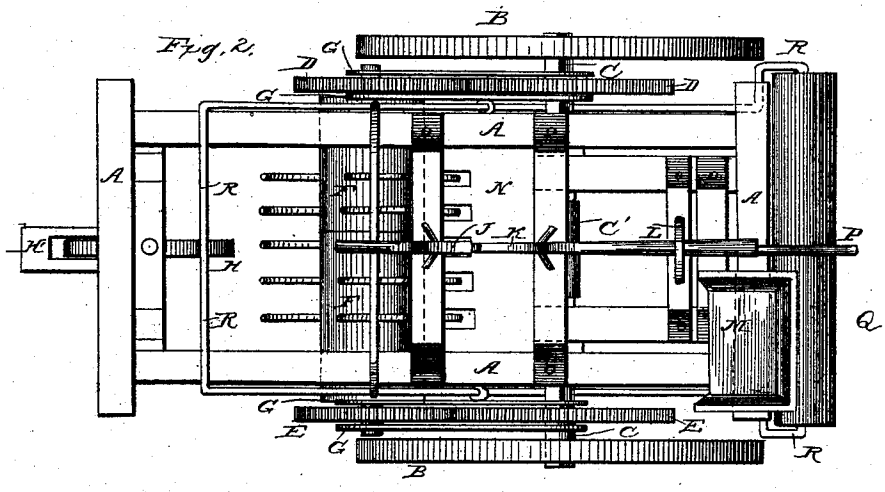


Fig. 1.

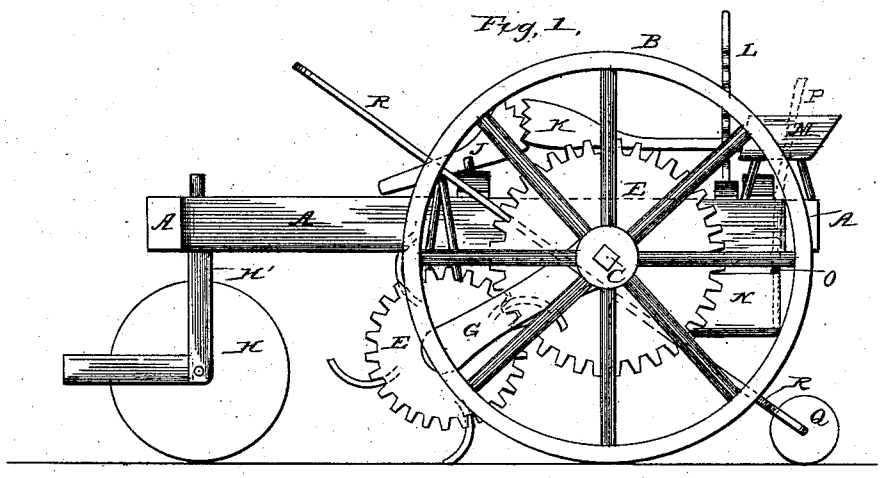


Fig. 3.

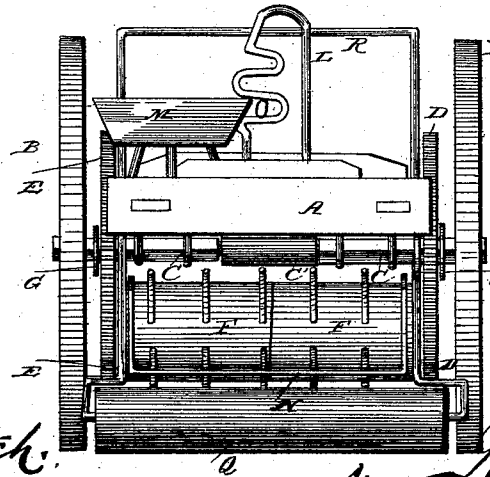
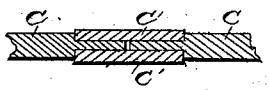


Fig. 4.



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UNITED STATES PATENT OFFICE.

JACOB VAN HOSEN, OF KEARNEY, NEW JERSEY.

MACHINE FOR GATHERING STONES.

SPECIFICATION forming part of Letters Patent No. 373,110, dated November 15, 1887.

Application filed June 20, 1882. Serial No. 64,675. (No model.)

To all whom it may concern:

Be it known that I, JACOB VAN HOSEN, a citizen of the United States, residing in the town of Kearney, in the county of Hudson and State of New Jersey, have invented new and useful Improvements in Machines for Gathering Stones and other Articles from the Surface of the Ground, of which the following is a specification.

My invention relates to machines, adapted to be wheeled over the ground, provided with rakes and the necessary elements for automatically picking stones and other articles from the ground, automatically depositing the same within a receptacle for the purpose, forming a part thereof, and for rolling the ground simultaneously.

The object of my improvements is to gather by pickers operated by a continuous or rotating motion and to greatly simplify and reduce the number of parts for such purposes.

Referring to the drawings, Figure 1 represents a side elevation of my improved picking-machine; Fig. 2, a top elevation of same; Fig. 3, an end view showing the gear and roller; Fig. 4, a section of axle at joint and union.

A is the frame, to which all of the operative parts of my improved picker, as well as the operator's seat, are secured; B B, wheels; C C, axles in two parts; C′, sleeve within which the joint or the two parts of the axle are supported and covered; D D, gears or cogs rigidly attached to the axle proper for transmitting motion to the gears E E, which in turn cause the picker to revolve; F F, pickers provided with curved teeth; G G G G, links for uniting gearing; H, trundle or pivot wheel; H′, pivot-support for trundle-wheel; L, lever for regulating, lowering, and lifting the picker, when desired, through the medium of levers J K; L, clutch or catch; M, seat; N, rack, screen, or receptacle for holding and carrying the articles picked; O, dumping-board operated by lever P; Q, smoothing-roller controlled by lever R.

The frame to and upon which the principal operative parts of my improvements are attached and combined to operate is very clearly shown in Fig. 1 of the drawings, which is mounted upon axles and wheels for moving about and for operating the pickers, &c. The picker consists of teeth secured to an axle or drum, which, in this instance, is rotated by means of gears or cogs (although the rotation may be accomplished by an endless chain or its equivalent) connecting the axles and picker-drum. The gears in this particular instance are rigidly secured to that part of the axle adjacent to the inner part of the hub of each wheel, although the axle-gears may be secured to and upon that part of the hub last referred to, in which case the wheels may run loosely and independently upon the ends of an axle formed in one piece, thereby obviating the necessity of constructing the same in two parts, as is required by the construction first referred to, it being obvious that in turning about, one wheel always travels and moves over a greater surface than the other; hence the necessity for their independent action. The picker-cylinder also may be made in two parts, each part acting independently of the other, for a like purpose. Consequently the operator of the picker takes his seat upon the machine, from which position he guides the motive power, and is in position to raise the dumping-board O, by means of a lever, P, for the discharge of the gathered material in the receptacle N, when desired.

For the purpose of avoiding large stones, stumps, and the like, the picker is raised by means of a lever or levers, J and K, operated by the driver. The roller for smoothing the ground, at the rear of the machine, is also raised and lowered in a like manner from the same point.

Having thus set forth my invention, what I claim as new, and desire to secure by Letters Patent of the United States of America, is—

1. In a picking-machine adapted for picking stones, &c., the combination therein of a supporting-frame, a driving-axle in two parts, a picker driven by cog-wheels thereon, directly intersecting similar ones upon the main axles, and a hand-lever for elevating the picker

through the medium of a centrally-pivoted intersecting lever, substantially as and for the purposes specified.

2. A picking-machine consisting of a supporting-frame, truck-wheels adapted to rotate independently of each other, a picker operated by gears directly intersecting each other secured to the main truck-axle of the machine and to the picker shaft or cylinder, connecting-links for maintaining the proper relation of the gears to each other, and levers for elevating the picker, substantially as set forth.

JACOB VAN HOSEN.

Witnesses:
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