

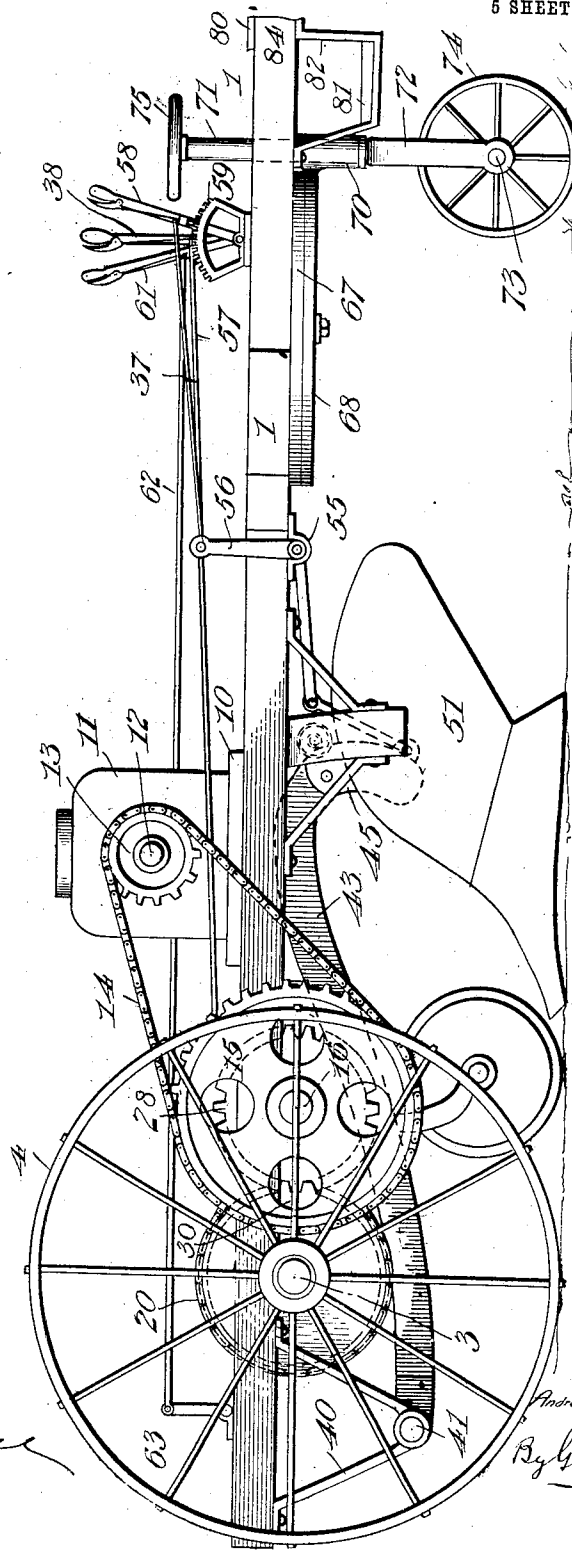
974,338.

A. K. BALTEZOR.
MOTOR PROPELLED PLOW.
APPLICATION FILED APR. 13, 1909.

Patented Nov. 1, 1910.

5 SHEETS—SHEET 1.

Fig. 1.



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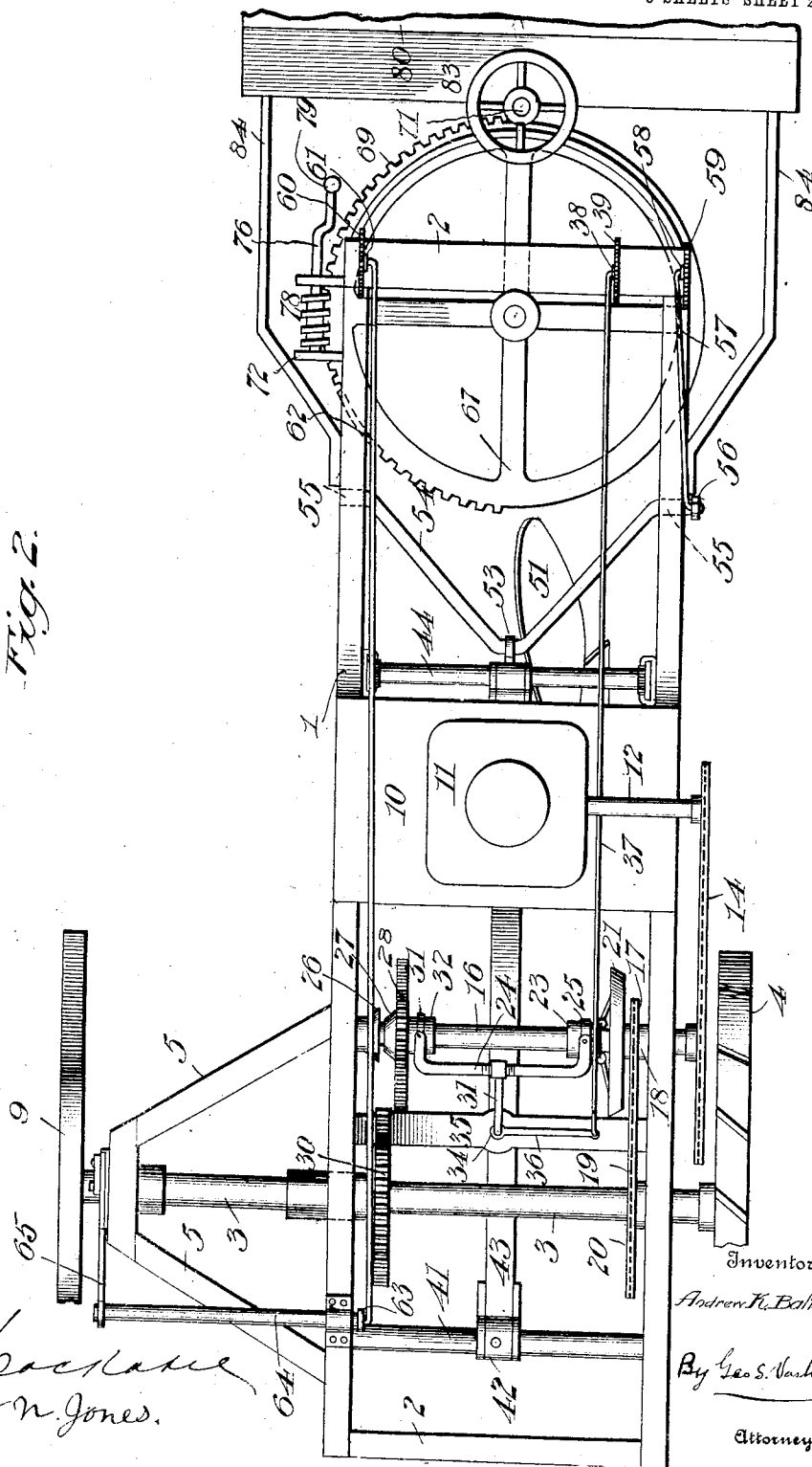
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5 SHEETS—SHEET 2

Fig. 2.



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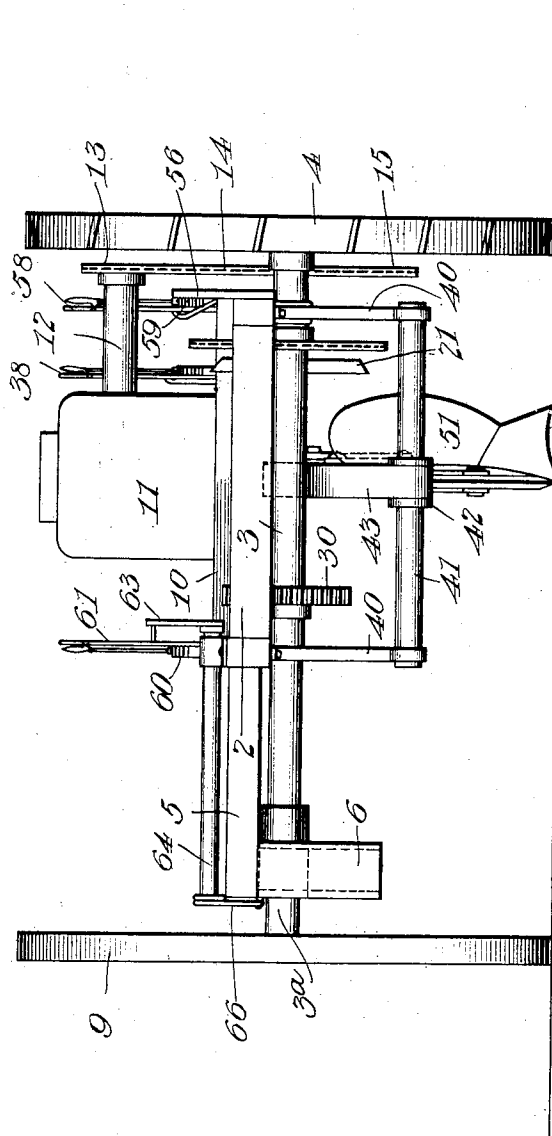
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5 SHEETS—SHEET 3.

Fig. 3.



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5 SHEETS-SHEET 4.

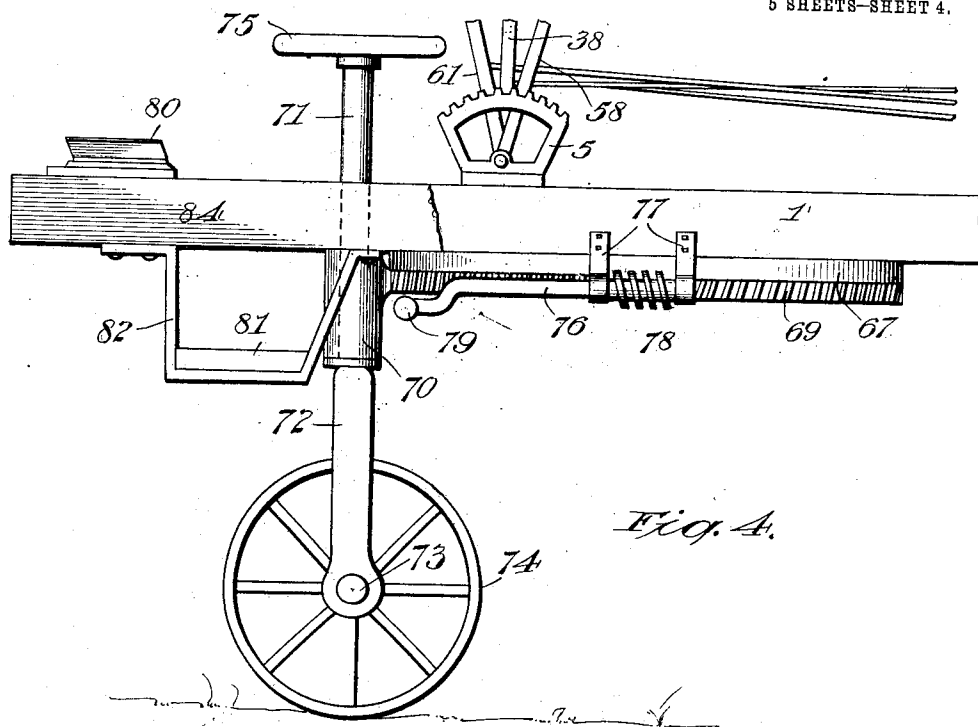
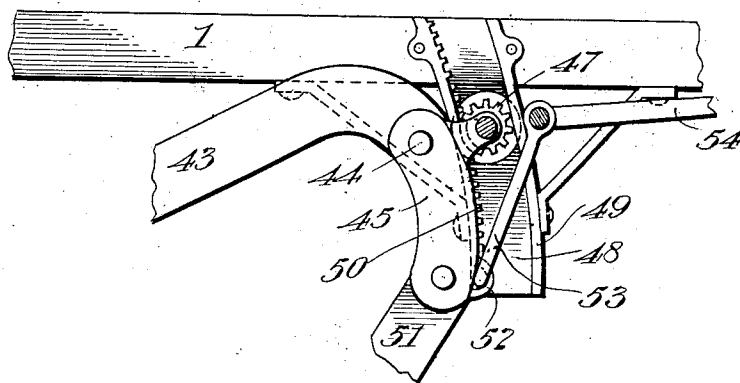


Fig. 4.

Fig. 5.



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5 SHEETS—SHEET 5.

Fig. 6.

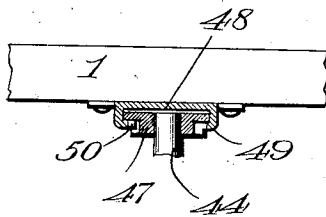


Fig. 7.

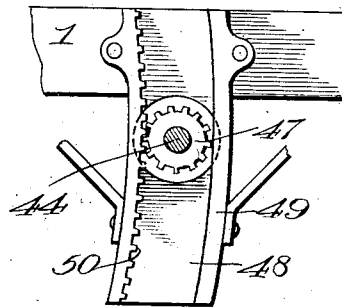


Fig. 8.

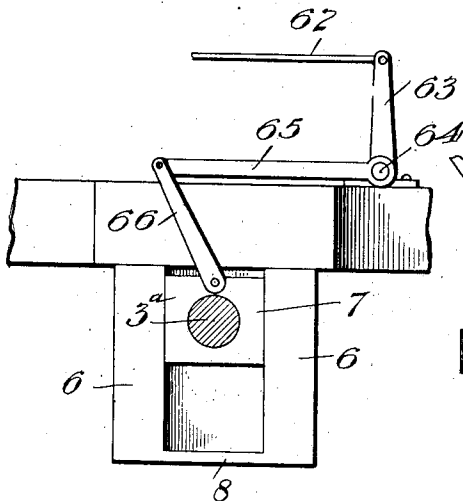
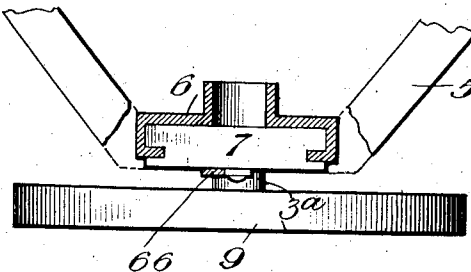


Fig. 9.



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UNITED STATES PATENT OFFICE.

ANDREW K. BALTEZOR, OF WENTZVILLE, MISSOURI.

MOTOR-PROPELLED PLOW.

974,338

Specification of Letters Patent.

Patented Nov. 1, 1910.

Application filed April 13, 1909. Serial No. 489,585.

To all whom it may concern.

Be it known that I, ANDREW K. BALTEZOR, a citizen of the United States, residing at Wentzville, in the county of St. Charles and State of Missouri, have invented new and useful Improvements in Motor-Propelled Plows, of which the following is a specification.

This invention relates to motor propelled plows, and has specially in view certain improvements therein which will permit of various relative adjustments of the plow and frame, and also permit of the motor of the plow to be readily disengaged from the running gear so that the power of the motor may be utilized for running various farming machines.

In connection with the foregoing the invention contemplates a novel type of steering wheel for the plow which will permit of short turns of the plow, the said steering mechanism being so arranged and located that it, as well as the levers for adjusting the various parts of the plow may be operated by one person.

In carrying out the objects of the invention generally stated above it will, of course, be understood that the essential features thereof are susceptible of a wide range of structural arrangements and details of parts, a practical and preferred example of which is shown in the accompanying drawings, wherein—

Figure 1 is a side elevation of the improved motor plow. Fig. 2 is a top plan view. Fig. 3 is a front elevation. Fig. 4 is a detail side elevation of the rear of one side of the motor plow, showing the steering mechanism. Figs. 5, 6 and 7 are detail views of the plow adjusting and holding mechanism. Figs. 8 and 9 are detail views of the land wheel adjusting mechanism.

Like characters of reference designate corresponding parts in the several figures of the accompanying drawings.

Referring to said drawings, it will be seen that the improved motor plow comprises primarily a main, rectangular shaped frame formed of side beams 1 and connecting end beams 2. The front portion of said frame has an axle 3 extending transversely thereof, the ends of which project beyond the side thereof, one end having a traction wheel 4 mounted thereon. The other end portion of said axle extends well beyond the side beam and passes through a slot or opening cen-

trally located in a boxing or casing carried by the outer ends of horizontally arranged, outwardly extending converging beams 5 which have a rigid connection with the side beam 1. The said boxing or casing has vertical side guides 6 for a block 7 carried by a stub shaft 3^a and a bottom abutment 8 for limiting the downward movement of said block in said guides, as will be more fully explained later. The free end of the stub shaft beyond said box or casing carries a land wheel 9.

The front portion of the frame carries hanger brackets 40 which form bearings for a shaft 41 which has a pivotal strap engagement 42 with the free end of a plow beam 43. The other end of said beam carries a shaft 44 which has a pivotal engagement with brackets 45 having outstanding lateral upper ears in which a pinion 47 is mounted and which engages with a plow hanger casing 48 having intumed sides 49, one of which is provided with ratchet teeth 50. Said hanger casings being held in a pendent position from each side beam 1. The lower end of the brackets 45 have engagement with plow share 51, and also carry outstanding ears 52 which are engaged by a bail link 53 of a bail 54, the ends of which are journaled in bearings 55 in the side beams 1. One of the ends of said bail projects through the side beam and carries a rocker arm 56 which has a rod connection 57 with a vertical lever 58 having a ratchet engagement with a ratchet segment 59. It will be seen from the foregoing that when the lever 58 is rocked the plow share will be raised or lowered, the vertical movements of the same being guided by the rack and pinion engagement described, and also that the plow may be left in any desired adjusted position by locking the lever to the gear segment, the weight of the plow share being sustained by the said rack and pinion engagement.

The rear of the frame also carries a third gear segment 60 which is engaged by a lever 61 having a pawl, said lever having a rod connection 62 with a rocker arm 63 of a shaft 64 which projects outwardly from the main frame and at its end carries a crank arm 65 which connects with a rod or eye 66 carried by the slide block bearing 7 slidably mounted in the box or casing for the land wheel. It will be seen from the foregoing that by rocking the lever 61 the outstanding side frame may be raised or lowered to incline or

tilt the main frame in various angles, which is of especial importance when plowing adjacent to hills or rises, or depressions or gullies.

The various levers for operating the land wheel, the clutch mechanism, and the adjusting of the plow are located adjacent to the steering wheel, and immediately adjacent to these levers and steering wheels, a seat 80 is provided for the operator and also a pendent foot rest 81 which is supported in side brackets 82 carried by the side beams of the frame. The seat 80 is carried by an extension sill 83 which may be longer than the width of the frame, and which is held in a rearwardly projecting position by means of the bracket arms 84 which project from the rear portions of the side beams 1. It will therefore be seen that all of the operative parts of the machine may be readily controlled by the occupant of the seat 80, thereby materially lessening the number of operators required.

As the motor for propelling the machine is of the usual, or any preferred type of gasolene engine, it has not been thought necessary to illustrate the same in detail other than what is necessary to show its connection with the running gear. It will, of course, be readily understood that provision will be made for the proper installing of the fuel supply tank, cooling fluid tank, and sparking arrangement.

A prominent feature of the invention, aside from what has been described, is that by means of the sprocket connection 14 between the running gear, the same may be readily disconnected when the plow is not to be used, and the gear 13 connected with

other farming machinery, so that the same can be efficiently operated.

What I claim is:—

1. A plow comprising a main frame, a plow member having its beam pivotally connected to the frame, hanger brackets fixedly carried by the side members of the frame and provided with racks, pinions loosely journaled on the plowing member and engaging with said racks, and means separate from the pinions and racks for adjusting said plow member vertically.

2. A plow comprising a main frame, a plow beam pivoted to said frame, a transverse shaft journaled on the beam and carrying pinions at each end, hangers fixedly carried by said frame and provided with racks with which said pinions engage, and means separate from the racks and pinions for raising and lowering said plow beam.

3. A plow comprising a main frame provided with supporting wheels, a plow beam pivoted to said frame, brackets carried by said beam, a shaft extending through said brackets, pinions mounted on the ends of said shaft, hanger brackets fixed to the sides of said frame and having internal racks with which said pinions engage, a bail connected to said beam brackets, and a lever connected with said bail whereby when said lever is rocked a vertical movement will be imparted to said plow beam.

In testimony whereof, I affix my signature in presence of two witnesses.

ANDREW K. BALTEZOR.

Witnesses:

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T. A. FOSTER.