

No. 846,575.

PATENTED MAR. 12, 1907.

W. LARSON.
SEINING MACHINE.

APPLICATION FILED JUNE 25, 1906.

2 SHEETS—SHEET 1.

Fig. 1.

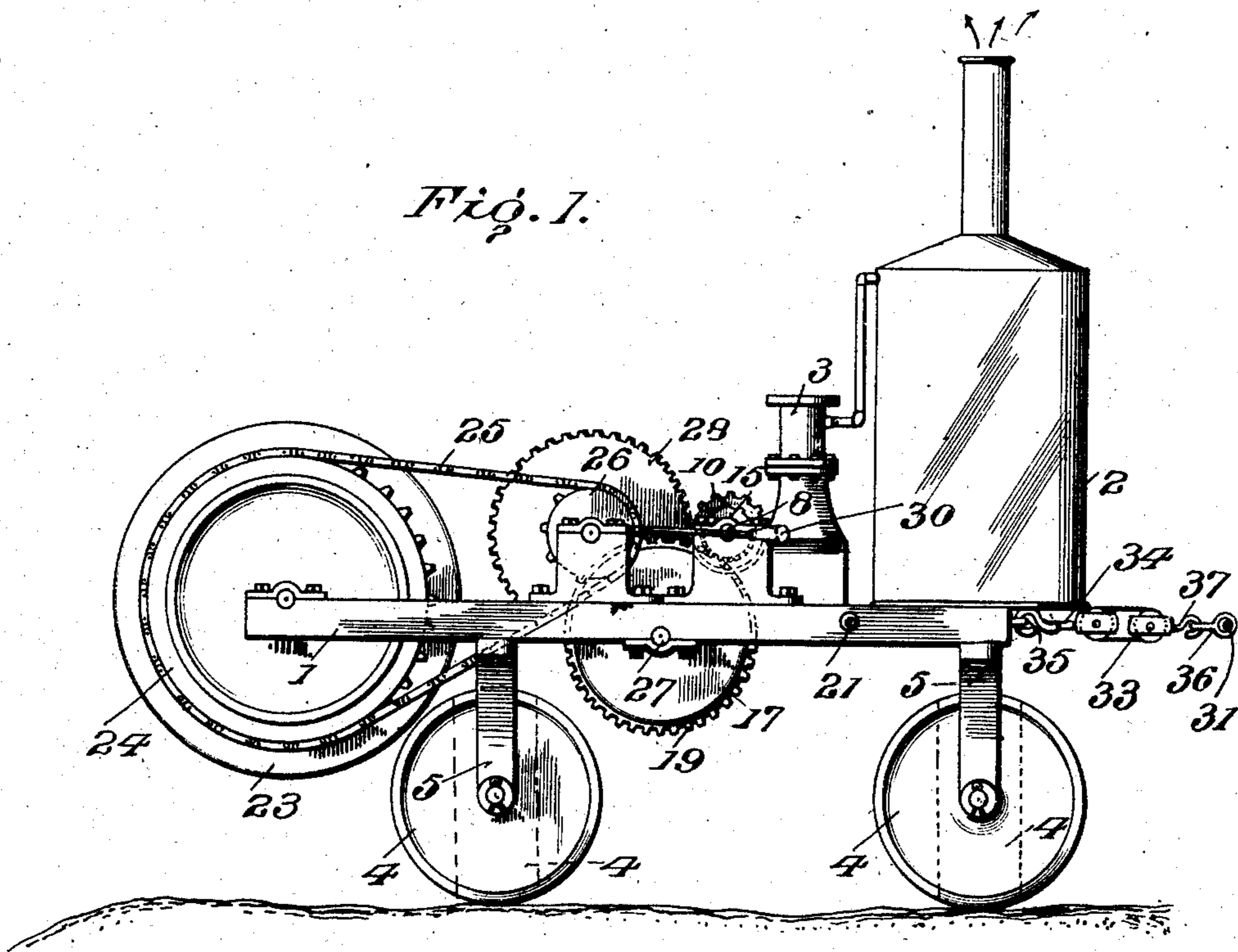
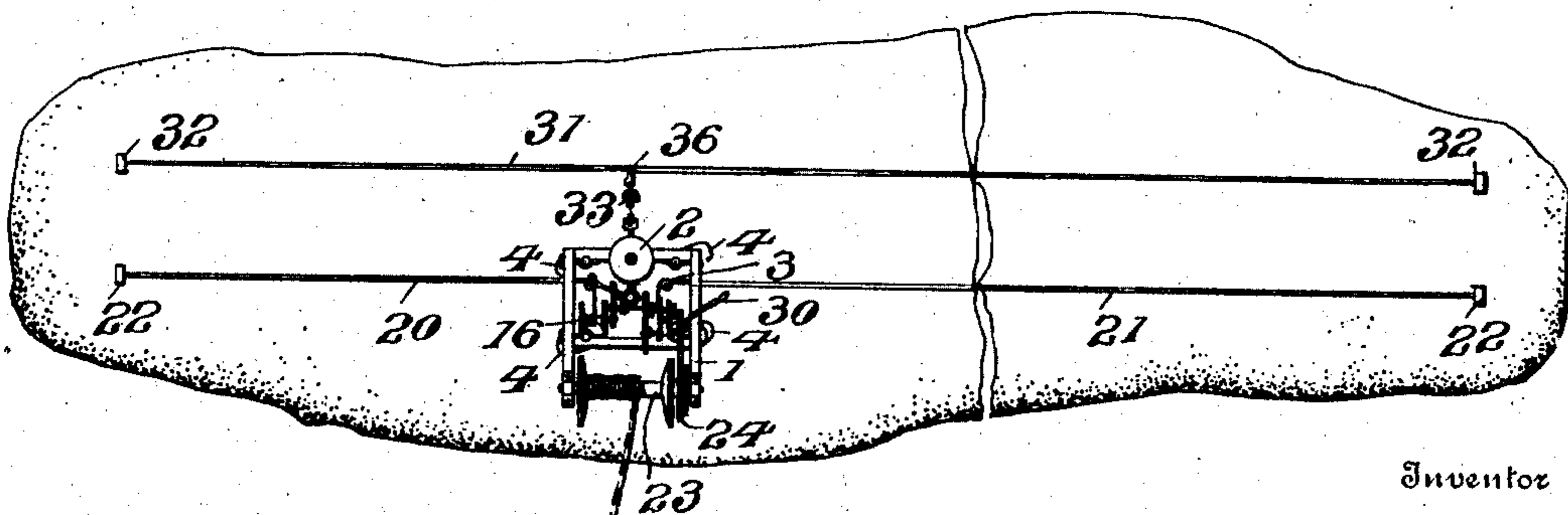


Fig. 3.



Inventor

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Witnesses

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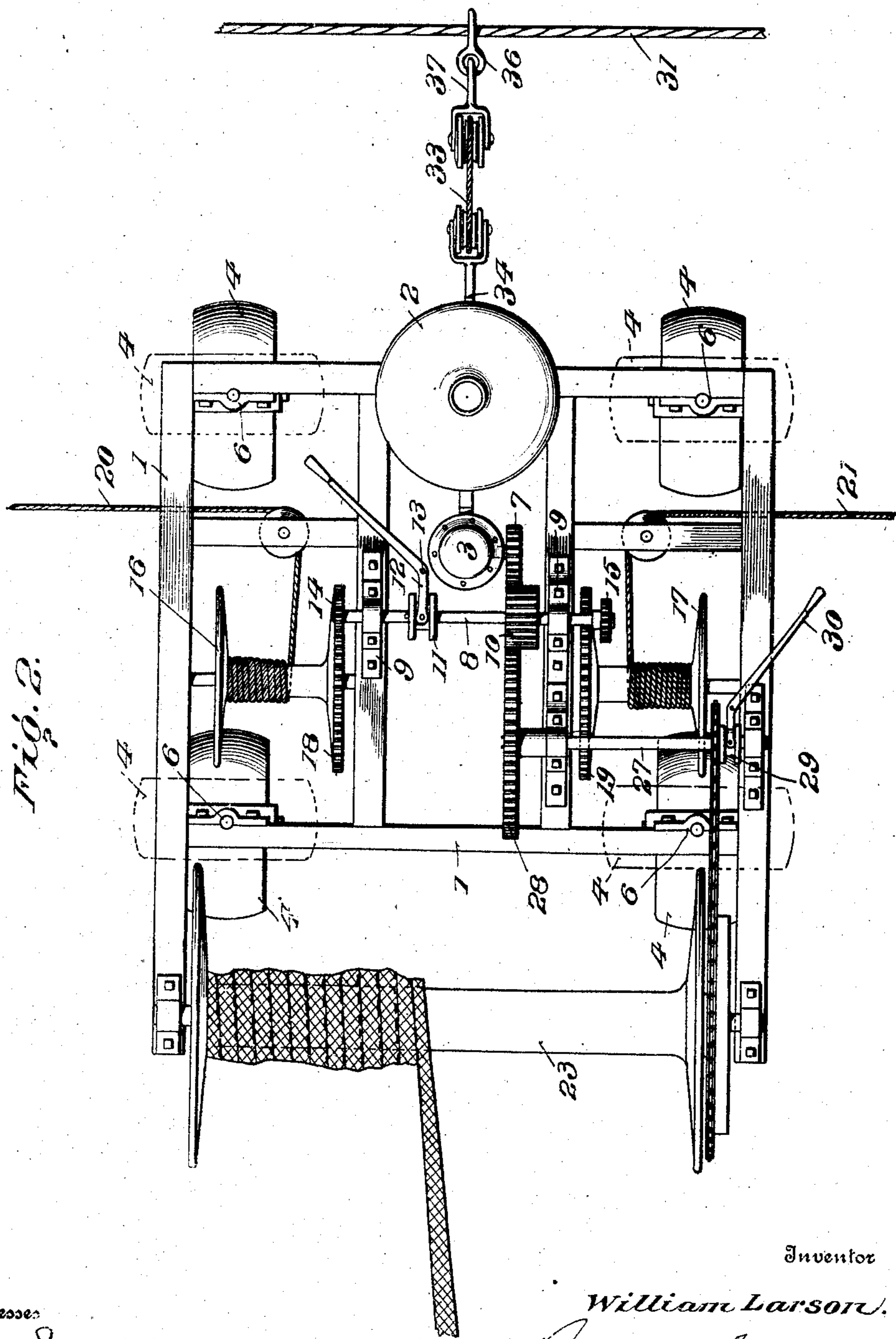
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2 SHEETS—SHEET 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM LARSON, OF ASTORIA, OREGON.

SEINING-MACHINE.

No. 846,575.

Specification of Letters Patent.

Patented March 12, 1907.

Application filed June 25, 1906. Serial No. 323,330.

To all whom it may concern:

Be it known that I, WILLIAM LARSON, a citizen of the United States, residing at Astoria, in the county of Clatsop and State of Oregon, have invented new and useful Improvements in Seining-Machines, of which the following is a specification.

My invention relates to new and useful improvements in seine-hauling apparatus.

10 The object of my invention is to produce a device by means of which the ends of the seine can be more readily drawn in than has heretofore been possible and one in which the position of the mechanism by which the
15 seine is hauled may be moved along the beach in order to retain the ends of the seine in proper relation to each other.

With these ends in view my invention consists in certain combination of parts, the preferred form of which will first be described in
20 connection with the drawings, and then the invention will be more particularly pointed out in the claims.

Referring to the drawings, wherein the
25 same part is designated by the same reference-numeral wherever it occurs, Figure 1 is a side elevation of a machine embodying my invention. Fig. 2 is a top plan view thereof, and Fig. 3 is a diagrammatic view
30 showing how the machine is rigged on a beach.

1 designates a suitable frame upon which the mechanism is mounted. As shown, this frame is of general rectangular form and supports at one end a boiler 2 of any desired construction.

3 designates a steam-engine of any desired construction by means of which the mechanism is driven.

40 4 designates the wheels on which the machine is mounted in order that it may be readily moved along the beach. In the form of my invention shown these wheels are in the form of casters, which are formed by
45 mounting the wheels in forks 5, journaled in suitable bearings 6, mounted on the frame. By this construction the wheels may turn in any direction to permit of the movement of the apparatus in any way as may be required.

50 7 designates a gear which is preferably directly mounted upon the engine-shaft.

8 designates the shaft, which is mounted in bearings 9 and which preferably may be shifted longitudinally in the bearings.

55 10 designates a wide face-gear which is fastened on the shaft and adapted to engage

with the gear 7 in any position which the shaft may assume.

11 is a grooved roll fastened on the shaft, and 12 is a forked lever pivoted at 13, the
60 forks of the lever engaging the groove in the roll 11, whereby upon the movement of the lever the shaft 8 may be shifted horizontally.

14 is a gear mounted on one end of the
65 shaft 8, and 15 is a gear mounted on the other end thereof.

16 17 are a pair of spools, one mounted in each side of the frame 1. These spools are provided with gears 18 19, respectively. The
70 distance between the gears 18 and 19 is less than the distance between the gears 14 and 15, and the gears 18 and 19 are adapted to be alternately engaged by the gears 14 and 15 upon the longitudinal shifting of the shaft 8.
75 By this construction it will be seen that either spool 16 or 17 may be driven by the engine or both spools may be run free, depending upon the longitudinal position of the shaft 8.
80

20 21 are ropes or cables which are attached to the drums 16 17, respectively. The other ends of these cables are attached to suitable anchors, as 22, secured on the beach in the desired position, as shown in Fig. 3. By
85 this construction the device is caused to traverse the length of the beach and can be moved to any position between the anchors 22.

23 is a spool mounted in bearings in the
90 frame 1. Upon this spool the seine is wound as it is drawn in. At one end the spool is provided with a sprocket-wheel 24, around which extends the sprocket-chain 25.

26 is a sprocket-wheel over which the
95 sprocket-chain 25 extends, the sprocket 26 being mounted upon a shaft 27, provided with a gear 28 in mesh with the gear 7 on the engine-shaft. The sprocket 26 is adapted to be connected to and disconnected from the
100 shaft 27 by means of a clutch 29 of any desired construction, and, as shown, this clutch is operated by a lever 30. From this construction it will be seen that when the sprocket-wheel 26 is clutched to the shaft 27
105 by operating the clutch 29 the seine will be wound in on the spool 23. When the sprocket is unclutched from the shaft, the winding-in operation will be stopped, and the same may be withdrawn from the spool.
110

In order to guide the apparatus in its movement up and down the beach, I pref-

erably provide a line 31, secured by suitable anchors 32 at its ends to the beach, the line 31 running parallel to the lines 20 21.

33 is a block and tackle, one block being 5 secured to the machine by a hook 34 engaging an eye 35 on the machine and the other block being secured to a double eye 36, the line 31 passing one of these eyes and the hook 37, secured to the other block, engaging the 10 other. By means of the block and tackle the machine can be moved up away from the beach-line and in its movement along the beach will be guided.

While I have described what I believe to 15 be the preferred form of my invention, I desire to have it understood that many changes may be made in the form, construction, and arrangement of parts without departing from my invention.

20 What I claim as new, and desire to secure by Letters Patent, is—

1. In a seine-hauling apparatus, the combination with a frame, of casters pivoted to the frame whereby the car may be moved 25 in any direction, of parallel lines having their ends adapted to be secured to the beach, a connection between the car and one of said lines, means for increasing or decreasing the length of said connection, and power mechanism connected to the other line to move 30 the car in a direction parallel to the lines.

2. A seine-hauling apparatus, comprising a car, a spool journaled in suitable supports

on the car on which the seine may be wound, a pair of spools mounted in bearings on the 35 car, a pair of lines each connected at one end to one of the spools, and having their other ends extending out in opposite direction from the car, anchors for securing the outer ends of the lines to the beach or the like, and 40 means for driving the spools alternately to wind one line or the other upon its respective spool whereby the car will be moved toward the anchor of the line being wound, and means for driving the spool for winding the seine. 45

3. A seine-hauling apparatus, comprising a car, provided with means for hauling the seine, a pair of spools mounted in suitable supports on the car, lines extending in opposite direction from the car, each line having 50 one end attached to one of the spools, gears on the spools, a shaft mounted in supports on the car and adapted for longitudinal movement, gears on the ends of the shaft, adapted to mesh alternately with the gears 55 of the spools, means for moving the shaft longitudinally, and means for driving said shaft, whereby said spools may be alternately driven.

In testimony whereof I affix my signature 60 in presence of two subscribing witnesses.

WILLIAM LARSON.

Witnesses

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FRANK J. TAYLOR.