S. KASKÓTO.

DERRICK.

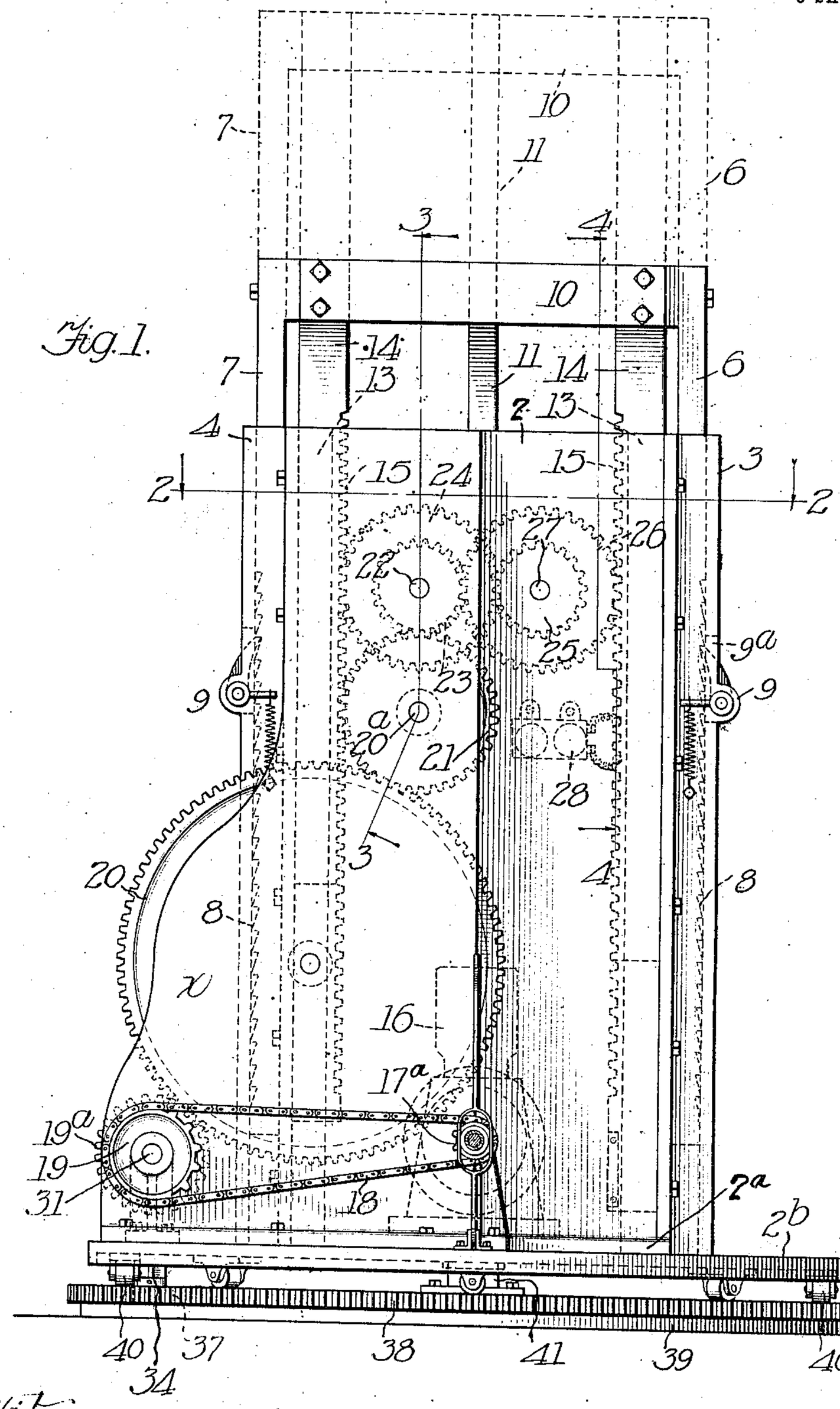
APPLICATION FILED JAN. 19, 1910.

989,611.

Patented Apr. 18, 1911.

3 SHEETS—SHEET 1.

Fig. 1.



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3 SHEETS—SHEET 2.

Fig. 2.

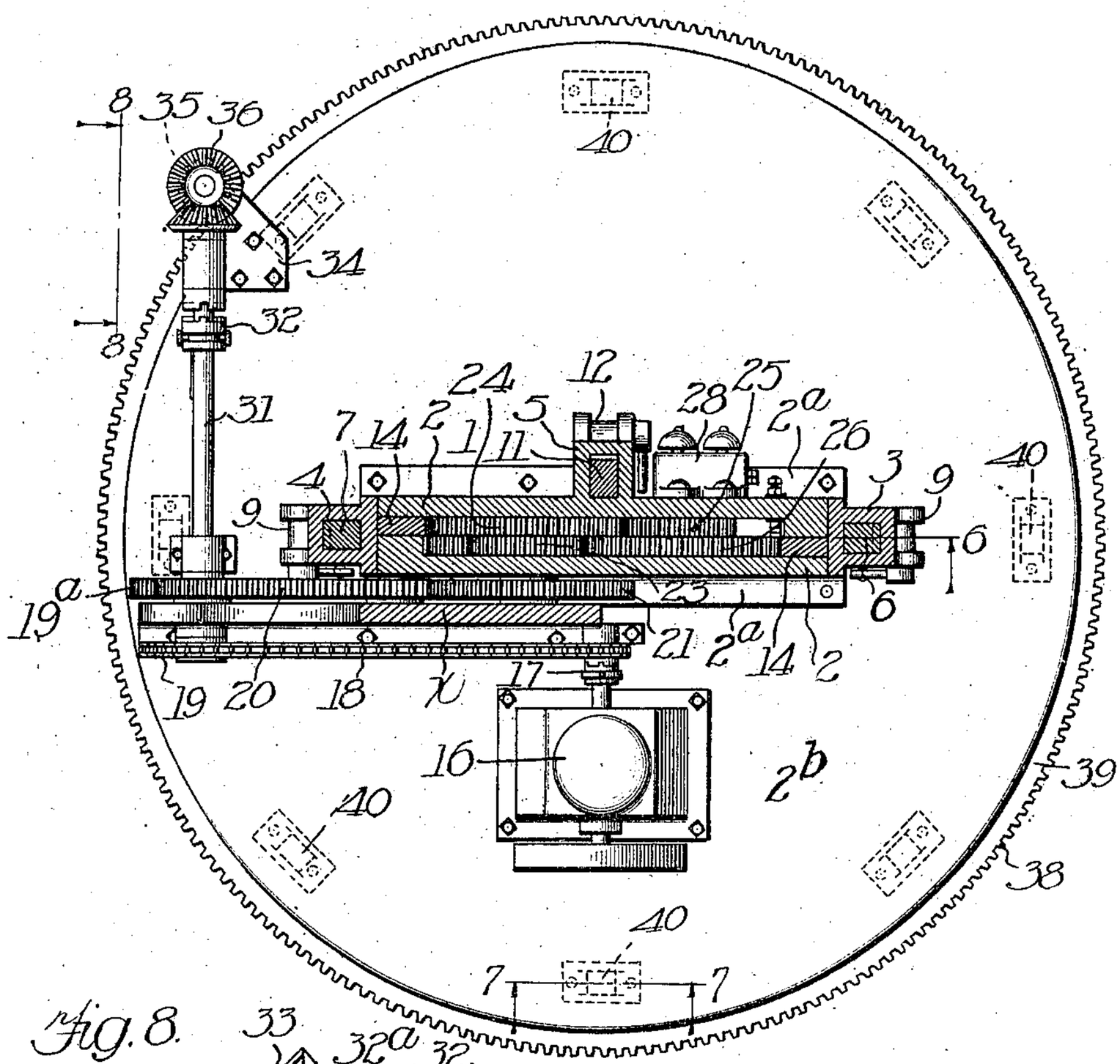


Fig. 8.

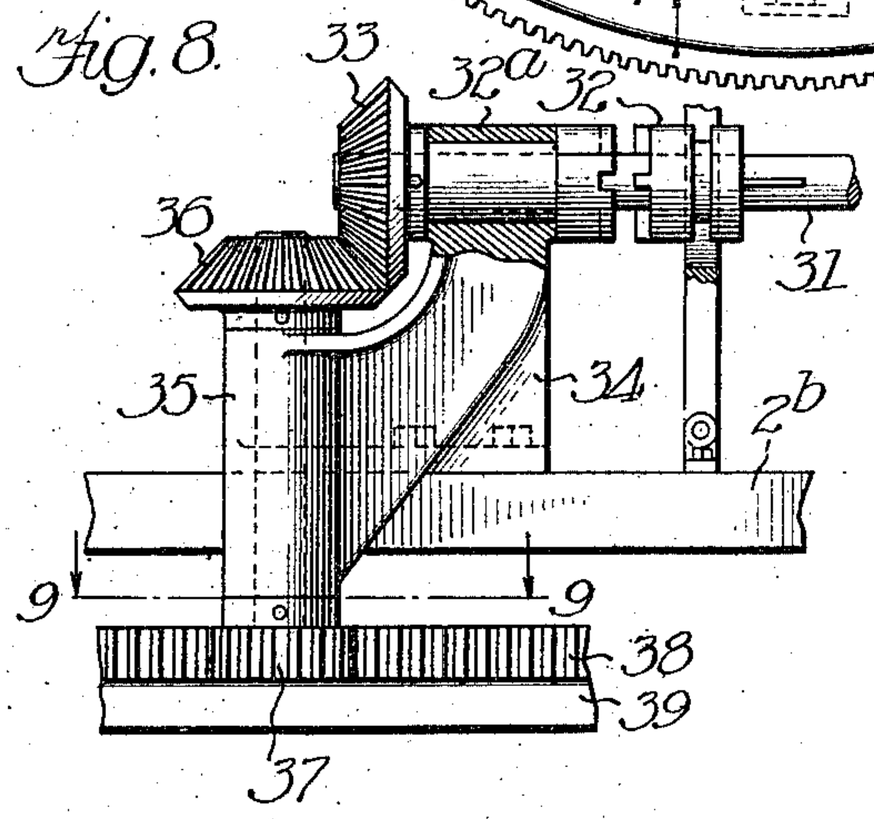
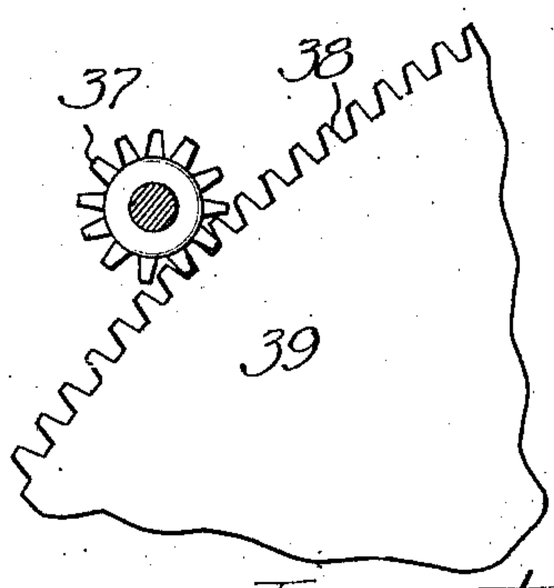


Fig. 9.



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3 SHEETS—SHEET 3.

Fig. 3.

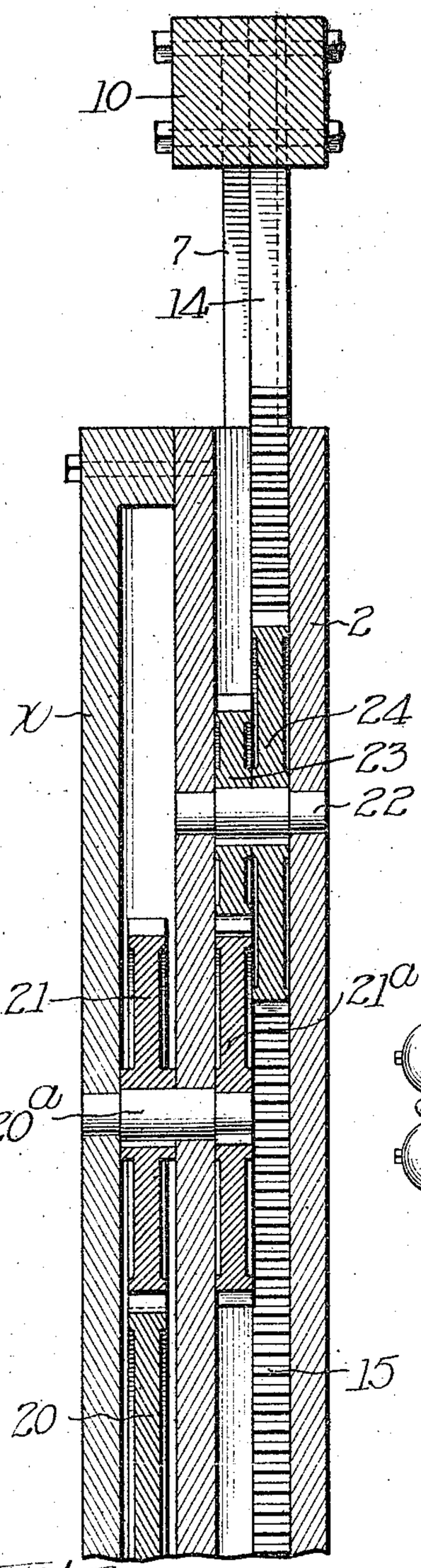


Fig. 6.

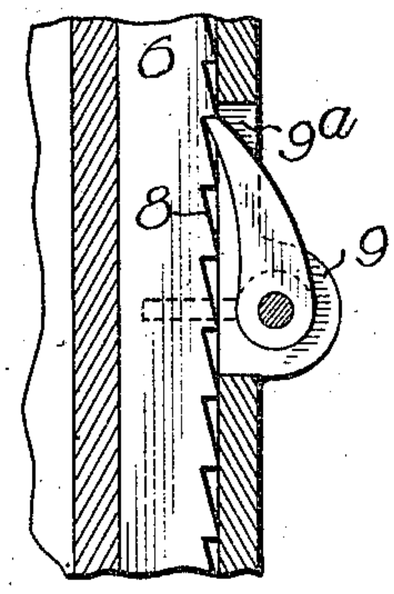


Fig. 5

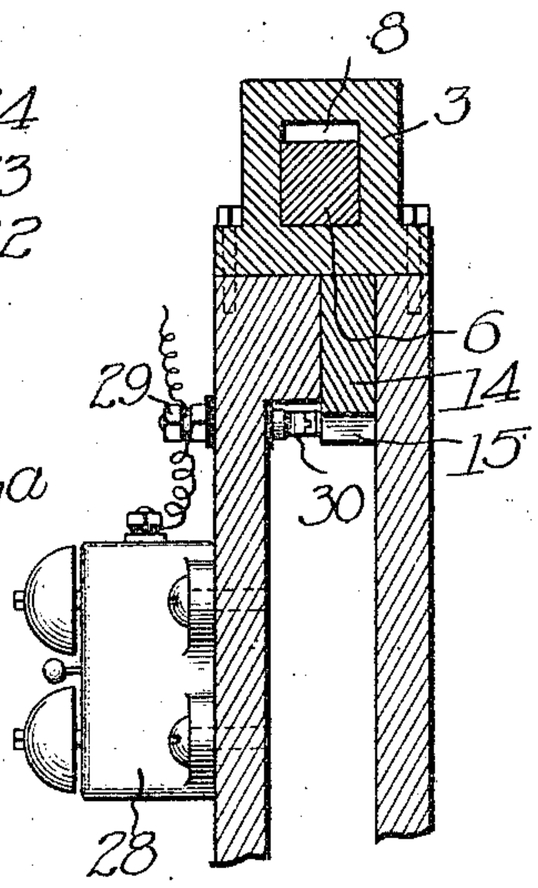


Fig. 7.

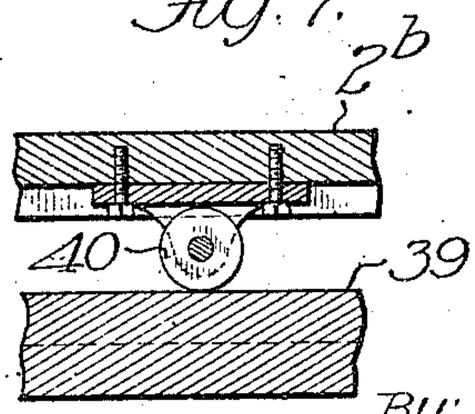
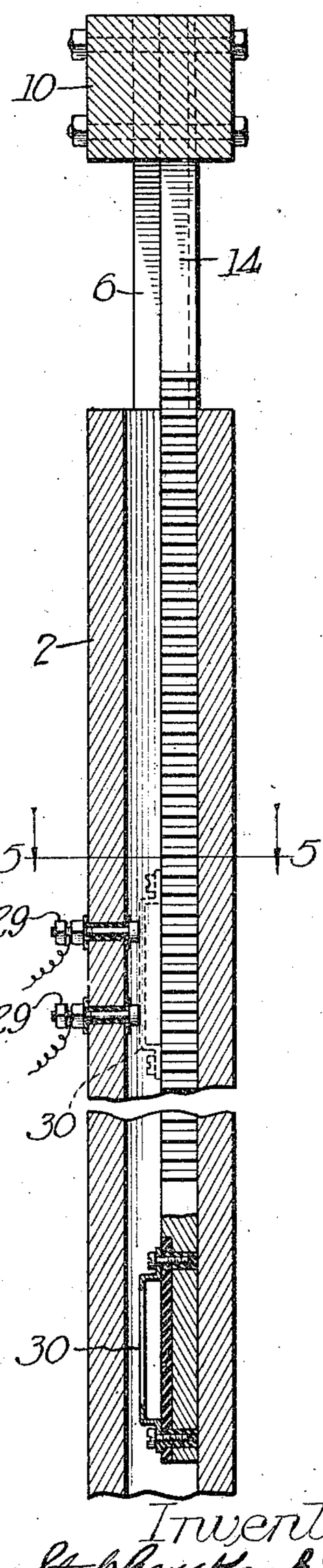


Fig. 4.



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UNITED STATES PATENT OFFICE.

STEPHEN KASKÓTO, OF EAST CHICAGO, INDIANA.

DERRICK.

989,611. Specification of Letters Patent. Patented Apr. 18, 1911.

Application filed January 19, 1910. Serial No. 538,856.

To all whom it may concern:

Be it known that I, STEPHEN KASKÓTO, a citizen of the United States, residing at East Chicago, in the county of Lake and State of Indiana, have invented certain new and useful Improvements in Derricks, (Serial No. 538,856, filed January 19, 1910,) of which the following is a specification.

This invention relates to derricks and more particularly to a device of the kind intended for raising houses or other cumbersome loads in which the machine can be set beneath the load to raise it. It involves means whereby the load may be lifted and swung in an arc with the least difficulty and with the greatest speed and precision.

With this and other objects in view the invention consists in the particular construction and combination of parts to be hereinafter fully described in the following specification, pointed out in the claims and illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of the device showing the lifting apparatus extended in dotted lines. Fig. 2 is a plan view of the same on line 2—2 of Fig. 1. Fig. 3 is a section on line 3—3 of Fig. 1 showing part of the internal mechanism. Fig. 4 is a similar view on line 4—4 of Fig. 1. Figs. 5, 6, 7, 8, and 9 are details of various parts of the mechanism to be described later.

Like reference characters indicate corresponding parts throughout the several views.

My invention comprises an upright casing having lateral walls 2 and a baseplate 2^a by which it is secured to a turntable 2^b that rides on a base 39. The casing is further provided with end pockets 3 and 4 and a lateral wall pocket 5. Toothed racks 6 and 7 having serrations disposed on their relatively remote surfaces are designed for removable insertion in pockets 3 and 4 respectively.

9 is a spring actuated dog for engagement with the serrations of the racks 6 and 7 through an aperture 9^a in the pocket to retard their return when raised out of their pockets by the mechanism to be hereinafter described. 10 is a cross piece designed for engagement with the upper extremities of said racks through the medium of which they work in unison.

11 is a vertical rack serrated similar to racks 6 and 7 and working in lateral pocket 5 on which pocket is arranged a dog 12 operating through an aperture in the pocket to stop rack 11 from return to its pocket when raised to any desired height in a manner similar to dogs 9 previously described. Rack 11 is secured to cross piece 10 by a member running therebetween.

Longitudinal interior end pockets 13 are arranged in the casing, one being adjacent either lateral wall thereof and racks 14 with serrations 15 oppositely disposed work therein, the upper extremities of said racks bing suitably secured to the cross piece 10.

X is an auxiliary casing extending from the top to the bottom of the main casing and from the vertical center thereof somewhat beyond the front of the main casing and is designed to shield the working parts of the device not inclosed in the main casing.

16 is an engine of suitable construction arranged on the turntable beside the casing, having a clutch 17 for engaging and disengaging the mechanism of the device and a chain 18 working over sprockets 17^a and 19, the latter of which carries on its axis 31 a gear 19^a meshing with a large toothed gear wheel 20 which lies partly within the auxiliary casing X and extends therebeyond.

21 is a gear inclosed in the auxiliary casing and meshing with large gear 20 which has arranged on its axis within the main casing a gear 21^a which meshes with a small gear 23 which carries on its axis 22 a larger gear 24 which meshes with the serrations of rack 14; gear 24 meshes with a small gear 25 which is on the axis 27 of gear 26 which latter gear meshes with the serrations of the opposite rack 14. This arrangement permits through the mechanism described the raising and lowering of the several toothed racks and the dogs 9 will hold them at any desired point.

28 is an electric bell arranged on one side wall of the main casing adjacent pocket 5 and having its wires secured in posts 29 so that plate 30 arranged on the lower termination of rack 14 in the rear interior pocket 13 will close the circuit and ring said bell when said rack is drawn approximately its entire length from the pocket thus giving notice to stop the machinery.

31 is the axis or shaft extending from sprocket 19 and at right angles to the same across the turntable provided with a clutch 32 and a sleeve 32^a on the termination there-

of which sleeve is provided with a pinion 33 and is designed for operation through the medium of said clutch.

34 is a bracket connecting sleeve 32ª with upright sleeve 35 which carries a pinion 36 meshing with pinion 33. A small pinion 37 is arranged on the opposite end of sleeve 35 to mesh with the teeth 38 of the base 39 on which the device revolves through the medium of casters 40 secured in the turntable and a central pivot 41.

What I claim is:—

1. In a device of the class described, a base, a turntable rotative on said base, a casing secured to said turntable, hoisting apparatus arranged within said casing, an engine arranged on the aforesaid turntable and power transmission mechanism connecting said engine with the aforesaid hoisting apparatus.

2. In a device of the class described, a base, a turntable rotative on said base, a casing provided with longitudinal pockets secured to said turntable, serrated racks adapted for vertical movement in said pockets, mechanism within the casing for actuating said racks, an engine arranged on the aforesaid turntable and mechanism connecting said engine and the aforesaid rack-operating mechanism for transmitting power thereto.

3. In a device of the class described, a base, a turntable rotative on said base, a casing provided with longitudinal pockets secured to said turntable, serrated racks adapted for vertical movement in said pockets, a plurality of gears within said casing adapted to mesh with each other and with a pair of racks 14 to impart vertical motion to the same, an engine arranged on the aforesaid turntable and power transmission mechanism connecting the aforesaid engine and gears.

4. In a device of the class described, a base having a serrated periphery, a turntable rotative on said base, a casing arranged on said turntable, hoisting mechanism disposed within said casing, an engine arranged on the aforesaid turntable, power transmission mechanism connecting the engine and hoisting apparatus and power transmission mechanism connecting said engine and serrated base 39 for rotating the turntable thereon.

5. In a device of the class described, a base, a turntable rotative on said base, a main casing having vertical interior end pockets, serrated racks arranged in said pockets, a plurality of external vertical pockets secured to said casing, serrated racks disposed within said pockets, cross members uniting all the aforesaid racks to enable them to work in unison, gears within the casing adapted to mesh with each other and with the racks in the interior pockets, dogs 9 adapted for engagement with the teeth of the racks of the exterior pockets, an auxiliary casing, a gear 21 within said casing and having connection with the internal gears of the main casing and a power transmission gear 20.

6. In a device of the class described, a base having a serrated periphery, a turntable rotative on said base, a main casing provided with vertical pockets, serrated racks disposed within said pockets, gears within the main casing meshing with each other and with racks 14, an auxiliary casing, gears within said casing connected with the gears in the main casing and receiving power from engine 16, a shaft 31 having a clutch thereon, a pinion terminally carried by said shaft and an upright sleeve 35 with pinions 36 and 37 meshing respectively with pinion 33 and the serrated periphery of the base 39.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two subscribing witnesses.

STEPHEN KASKÓTO.

Witnesses:
WILLIAM K. RAPP,
G. S. WIGGINS.