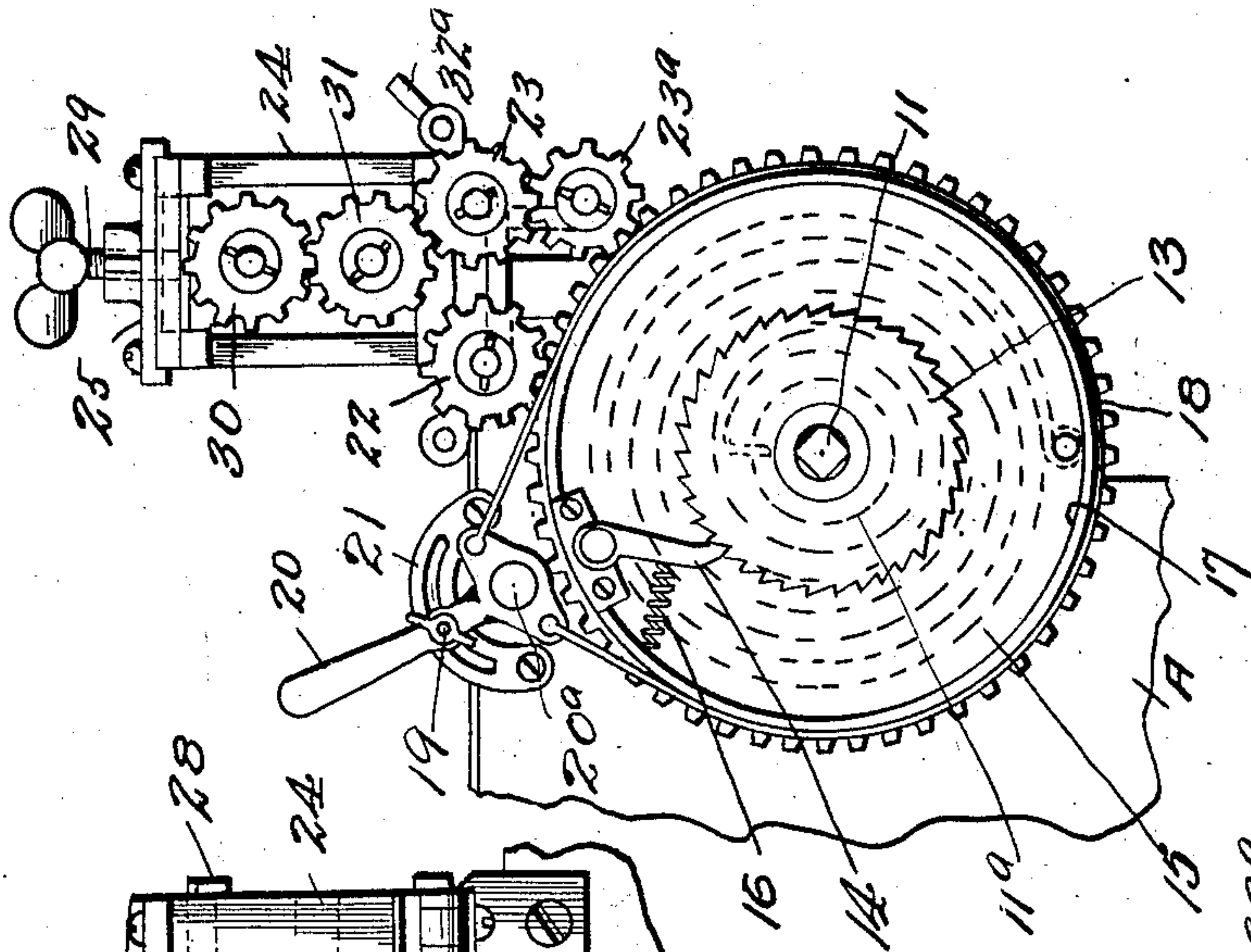
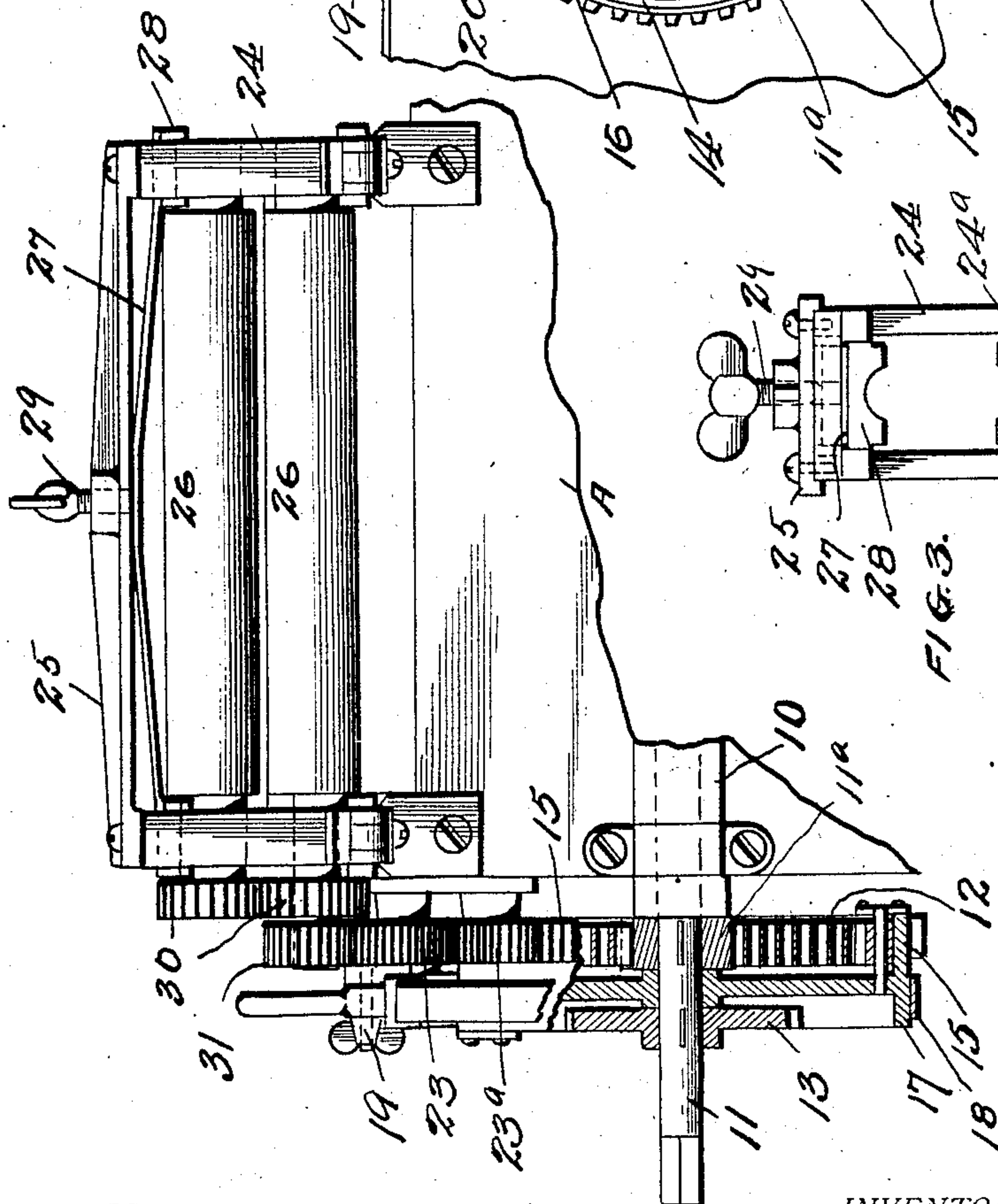


994,314.

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F/G: 1.



F163.

WITNESSES
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UNITED STATES PATENT OFFICE.

NEAL HARDIN, OF MILES CITY, MONTANA, ASSIGNOR OF ONE-FOURTH TO LEWIS W. HAMEL, OF MILES CITY, MONTANA.

WRINGER-GEARING.

994,314.

Specification of Letters Patent.

Patented June 6, 1911.

Application filed July 26, 1910. Serial No. 573,827.

To all whom it may concern:

Be it known that I, NEAL HARDIN, a citizen of the United States, residing at Miles City, in the county of Custer and State of Montana, have invented certain new and useful Improvements in Wringer-Gearing, of which the following is a specification.

My present invention relates particularly to an improved gearing for clothes wringers, my object being to provide a mechanism whereby a wringer may be continuously rotated to wring clothes into or out of a washing machine and the like and whereby its speed may be controlled.

With this in view, my invention resides in the features of construction, arrangement and operation to be hereinafter described with reference to the accompanying drawings, in which—

Figure 1 is a side elevation of the upper portion of a washing machine, to which my invention has been applied. Fig. 2 is an end elevation of the same. Fig. 3 is a sectional detail of one end of the wringer frame and the parts upon which it is mounted.

Referring now to these figures, I have shown my invention attached to a washing machine body A which I will hereafter term support, as it may be a wash tub or other receptacle.

Mounted upon one side of the support A is a frame 10 which supports a rotary shaft 11 about which is coiled a driving spring 12, one end of which spring 12 is attached to a collar 11^a on said shaft and the other end of which is attached to gear wheel 15. Shaft 11 also carries a ratchet wheel 13 in such position as to be engaged by a pawl 14 carried by the gear wheel 15 loose upon said shaft and provided with a spring 16 bearing against said pawl. In this manner driving spring 12 may be wound by rotating shaft 11 in one direction independent of gear 15.

As shown, gear wheel 15 has an outstanding circular side flange 17, the surface of which is smooth and forms a brake surface about which is looped a brake band 18, the ends of which are secured to portions of

a lever 20 upon opposite sides of its pivot 20^a, said lever having a clamping bolt and nut 19 working in a curved slotted guide plate 21, whereby the lever and brake band may be secured in selected adjustment.

Extending laterally from the side of the support A, adjacent to its upper edge, is a pair of stud shafts on which are loosely mounted pinions 22 and 23, pinion 22 of which meshes with the gear wheel 15, and pinion 23 of which meshes with another pinion 23^a in engagement with said gear wheel 15.

The wringer comprises side frames 24, top 25, superposed wringer rolls 26, and a bow-spring 27, the latter having its ends bearing downwardly upon blocks 28 in the side frames 24 above the upper roller 26 and adjustable as to its pressure by a screw 29 threaded through the top 25 and bearing thereagainst. The wringer rolls 26 have reduced ends projecting beyond one of the side frames and provided with intermeshing pinions 30, and the lower roll 26 has a reduced extension on which is a gear wheel 31. The lower portions of the side frames 24 have pins 24^a which are slidable within slotted brackets 32 having down-turned portions 33 secured upon the upper side edges of the support A, and in this manner the wringer may be moved to engage its gear wheel 31 with either of the pinions 22 and 23. As will be seen, the engagement of the wringer gear 31 with pinion 22 causes movement of the wringer rolls in a direction adapted to wring the clothes out of the support A, while engagement thereof with the pinion 23 causes reverse movement of these same rolls to wring clothes into the support.

The brackets 32 have side wings 32^a, either of which may be moved downwardly to engage the wringer frame and hold the same in adjusted position.

I claim:

A gearing comprising a support, a combined driving gear and brake wheel mounted upon said support, means for rotating said gear and wheel, an adjustable brake in

connection therewith, oppositely rotating
gears mounted upon said support, and hav-
ing connection with said first named gear,
a member slidably mounted upon said sup-
5 port, and a gear carried by said member to
engage either of aforesaid oppositely rotat-
ing gears.

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

NEAL HARDIN.

Witnesses:

F. D. SCOTT,

G. W. GERHART.