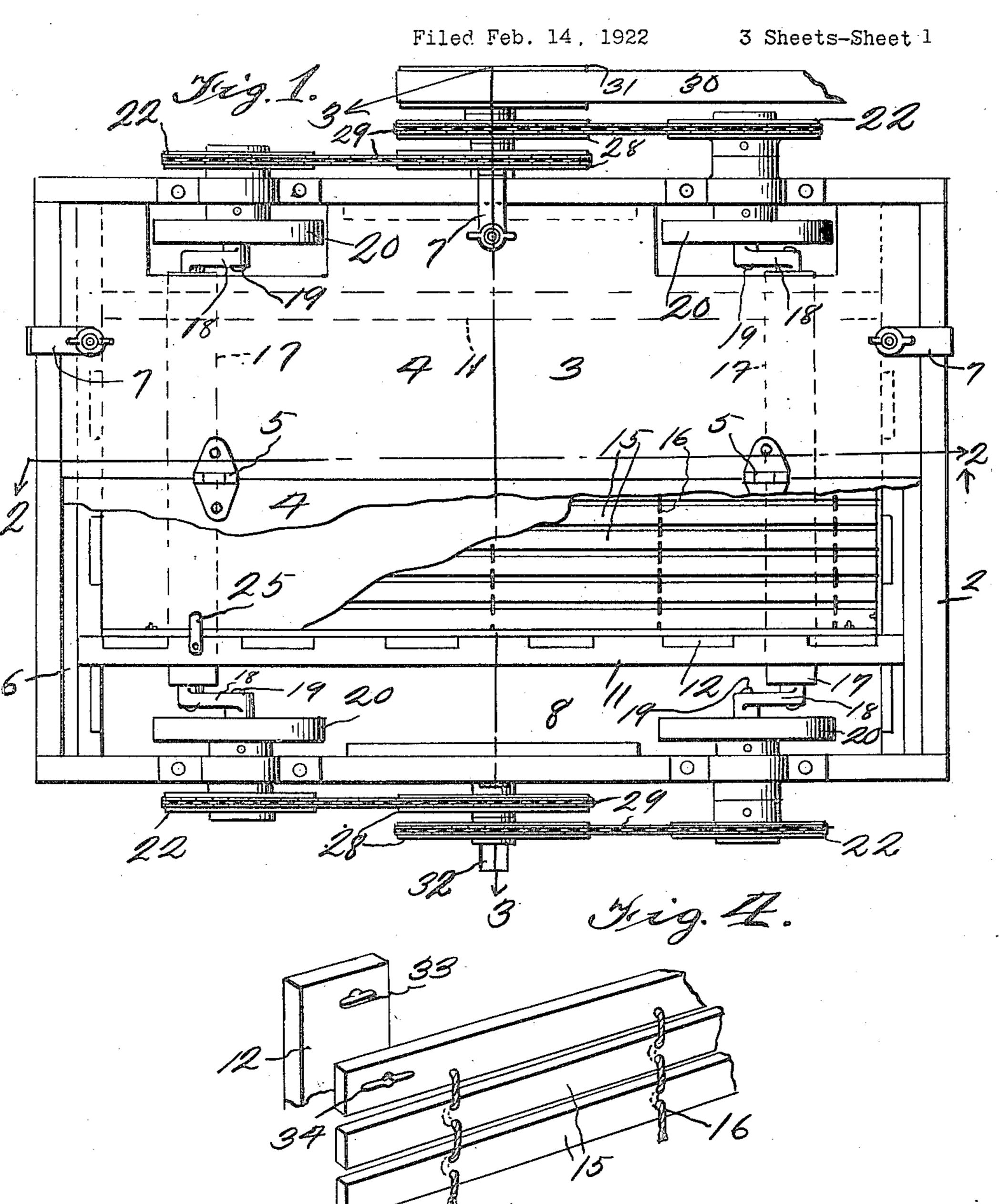
M. WAGNER

WASHING MACHINE



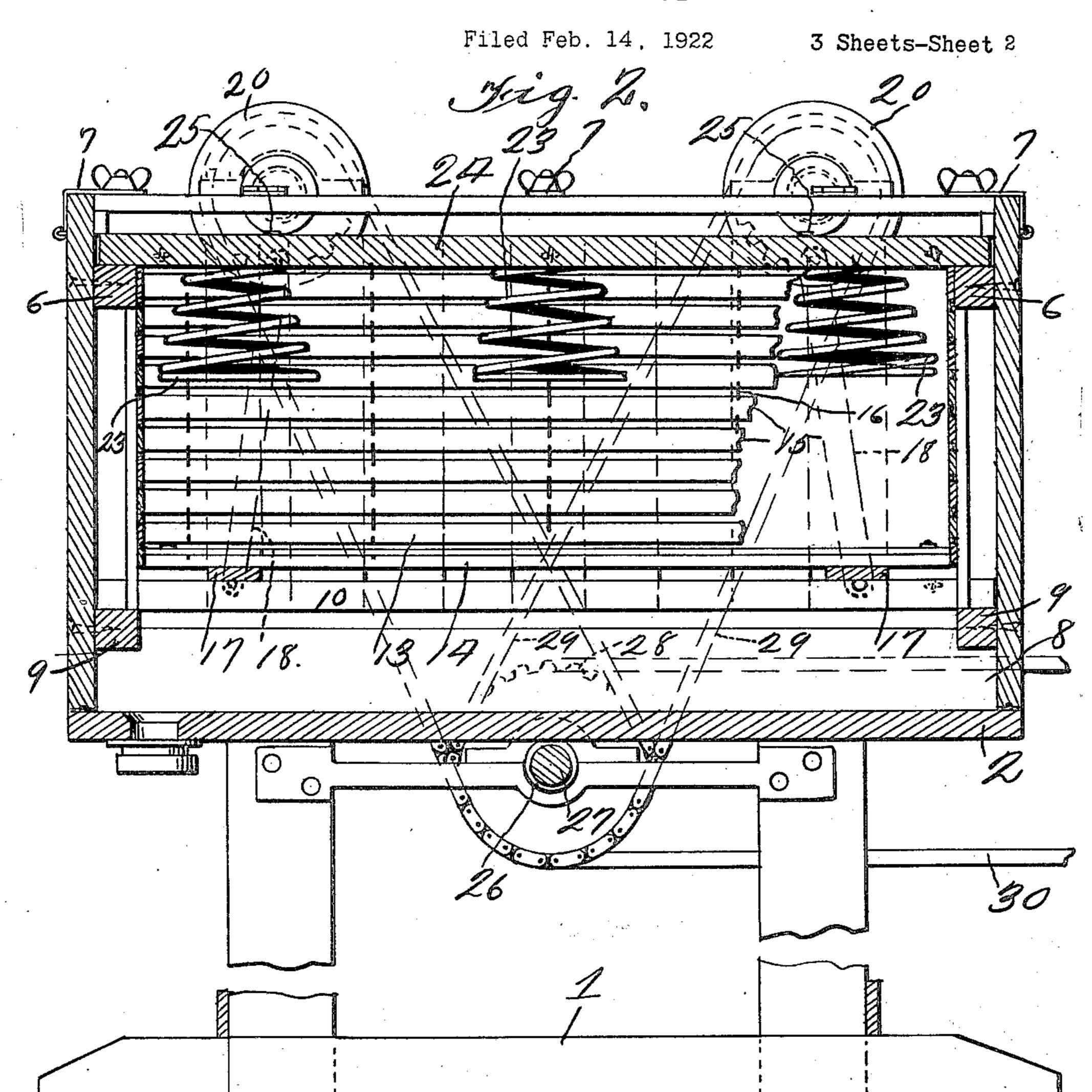
Jnventor

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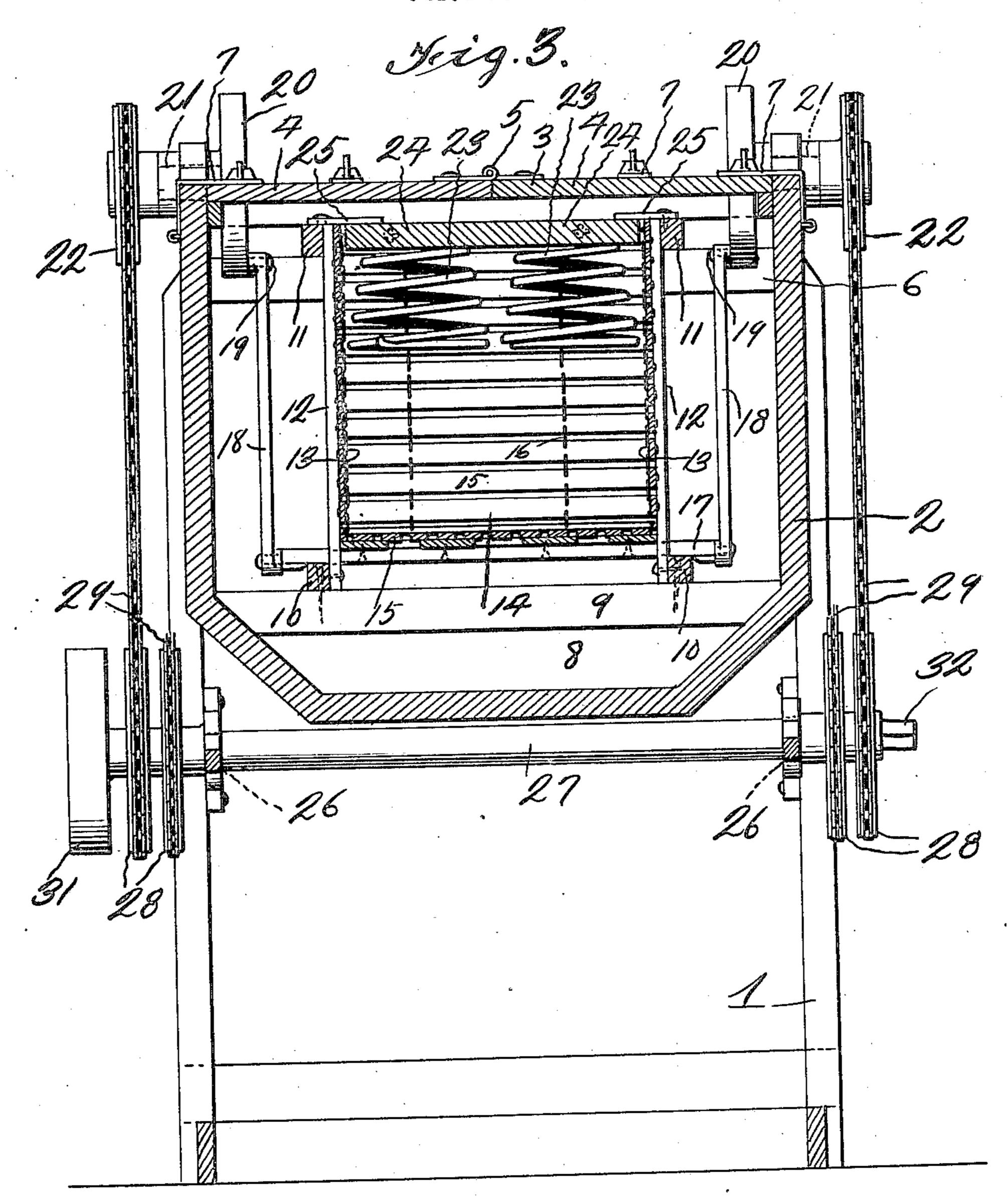
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Filed Feb. 14, 1922

3 Sheets-Sheet 3



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UNITED STATES PATENT OFFICE.

MARTIN WAGNER, OF ARGUSVILLE, NORTH DAKOTA.

WASHING MACHINE.

Application filed February 14, 1922. Serial No. 536,476.

To all whom it may concern:

citizen of the United States, residing at claimed without departing from the spirit Argusville, in the county of Cass, State of of the invention. 5 North Dakota, have invented a new and useful Washing Machine; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to 10 which it appertains to make and use the same.

The invention relates to washing machines view taken on line 3-3 of Figure 1. and has for its object to provide a device 15 ceiving receptacle, said receptacle having lapsible receptacle, showing the method of disposed therein a collapsible clothes receiv- supporting the upper end of the receptacle. ing receptacle, and to provide crank and Referring to the drawings, the numeral 1 20 collapsed for imparting a squeezing action tacle may be of any shape, round, square or 25 helical springs, against which springs the connected together at 5. Cover 3 rests on clothing is forced during a collapsible op- cleats 6 and is held in place by means of

lapsible receptacle for the reception of placing clothing in the machine. 30 clothes, said receptacle being formed from Disposed within the chamber 8 of the rea plurality of slats held together by pliable ceptacle 2 are transversely disposed cleats 9, members thereby allowing the slats to be collapsed and to provide vertically disposed guide members for guiding the slats in

ing a collapsing operation.

ceptacle, said means comprising connecting bars 12 prevent outward bulging of the sides 95 40 rods pivoted to the lower end of the re- 13 of the collapsible receptacle 14 during a ceptacle at opposite sides thereof, said con- clothes squeezing operation, at which time necting rods having their upper ends piv- the receptacle 4 is collapsed. Receptacle 14 otally connected to wrist pins and carried is formed from a plurality of slats 15 which by rotatable shafts. The outer end of the are connected together by flexible members 100 45 rotatable shafts is provided with sprockets. 16. Flexible members 16 allow the collapsisaid sprockets having extending around ble receptacle to be collapsed when the them and around the sprockets carried by transversely disposed bars 17 are forced upa main drive shaft sprocket chains. The wardly by upward pulls imparted on the main drive shaft is adapted to be rotated connecting rods 18. The upper ends of the 105 manually or through the medium of power connecting rods 18 are pivotally connected belted thereto.

the invention resides in the combination and outer ends of which sprockets 22 are secured. arrangement of parts as hereinafter set It will be seen that when the collapsible re-55 forth, shown in the drawings, described and ceptacle is full of clothing and the discs 20 claimed, it being understood that changes are rotated that there will be an intermit-

in the precise embodiment of the invention Be it known that I, Martin Wagner, a may be made within the scope of what is

In the drawings:—

Figure 1 is a top plan view of the washing machine, part being broken away to show the interior structure.

Figure 2 is a vertical longitudinal sec- 65 tional view taken on line 2—2 of Figure 1. Figure 3 is a vertical transverse sectional

Figure 4 is a detail perspective view of of this character comprising a water re- portions of the adjacent slats of the col- 70

connecting rod means whereby said col- designates a base for supporting the main lapsible receptacle may be intermittently washing machine receptacle 2, which recep- 75 upon the goods within the receptacle. Also oblong, however for purposes of illustration to provide a rigid cover for the collapsible the same is shown oblong shaped. The rereceptacle, said rigid cover being provided ceptacle 2 is provided with a cover 3 formed with a plurality of downwardly extending from hinged sections 4, which are hingedly 80 eration of the collapsible receptacle. hinged members 7 whereby access may be A further object is to provide a col- had to the interior of the receptacle 2 for

which cleats are in the same horizontal plane and have disposed thereon longitudinally disposed bars 10, said bars having their ends 90 35 their upward and downward movement dur- secured to cleats 9, and secured to said bars 10 and to transversely disposed bars 11 and A further object is to provide operating connecting the bars 10 and 11 together are means for collapsing the collapsible re- vertically disposed guide bars. The guide at 19 to wrist pins carried by discs 20. With the above and other objects in view Discs 20 are carried by shafts 21 on the

tent collapsing and extending of the collapsible receptacle 14 thereby squeezing the clothing and expelling the water and dirt therefrom. During this operation it is es-5 sential to have resilient means against which the clothing is forced or otherwise the collapsible receptacle if too full of clothing would not collapse sufficiently to allow rotation of the discs 20. To overcome this dif-10 ficulty helical springs 23 are provided, which helical springs are carried by the removable cover 24, which normally closes the bers being connected together by pliable upper end of the collapsible receptacle and members, means for intermittently collaps- 60 is held closed by pivoted members 25.

Rotatably mounted in bearings 26 of the base 1 is a centrally and transversely disposed drive shaft 27, the ends of which are provided with sprockets 28, and around said sprockets and around the sprockets 22, 20 upwardly extending sprocket chains 29 pass. It will be seen that when the drive shaft 27 is rotated that the disc 20 will be simultaneously rotated in such a manner that the collapsible receptacle 14 will be 25 collapsed upwardly and that as the discs 20 continue to rotate the collapsible receptacle will be allowed to expand under the influence of the clothing and also under the influence of the downward movement of the 30 bar 17. Shaft 27 may be driven from an electric motor or any other source of power sired a handle member may be placed on the 35 rectangular shaped portion 32 of the shaft 27, thereby allowing the shaft to be rotated manually if so desired.

From the above it will be seen that a washing machine is provided wherein a col-40 lapsible receptacle is utilized and the parts reduced to a minimum thereby allowing the machine to be cheaply manufactured.

The upper end of the collapsible receptacle 14 may be secured in any suitable manner to the upper ends of the guide bars 12, however for purposes of illustration the upper ends of the guide bars 12 are provided

with pivoted T-shaped members 33 which pass through elongated apertures in the upper slats 15, said apertures being designated 50 by the numeral 34.

The invention having been set forth what

is claimed as new and useful is:-

1. A washing machine comprising a main receptacle and an auxiliary receptacle for 55 the reception of articles to be washed, said auxiliary receptacle being formed from a plurality of members, said plurality of meming and extending said collapsible receptacle, a removable cover carried by the auxiliary receptacle and spiral springs carried by said auxiliary receptacle cover and extending down into the upper end of the auxil-65

1ary receptacle.

2. A washing machine comprising a main receptacle and an auxiliary receptacle for the reception of articles to be washed, said auxiliary receptacle being formed from a 70 plurality of members, said plurality of members being connected together by pliable members thereby allowing the receptacle to be collapsed, shafts on the main receptacle, a crank on each shaft, connecting rods 75 connected to the lower end of said auxiliary receptacle, the upper ends of said connecting rods being pivotally connected to said through the medium of a belt 30, which cranks, sprockets carried by said shafts, a belt extends around a pulley 31. If so de-main drive shaft disposed below the main 80 receptacle, said drive shaft being provided with sprockets, sprocket chains extending around said last named sprockets and around the first named sprockets carried by the crank shafts, and means whereby the 85 main drive shaft may be rotated.

In testimony whereof I have signed my name to this specification in the presence of

two subscribing witnesses.

MARTIN WAGNER.

Witnesses: C. B. Vogen, GEO. G. KENT.