

975,133.

J. JACOBSON.
WINDING DEVICE.
APPLICATION FILED MAY 11, 1909.

Patented Nov. 8, 1910.
3 SHEETS-SHEET 1.

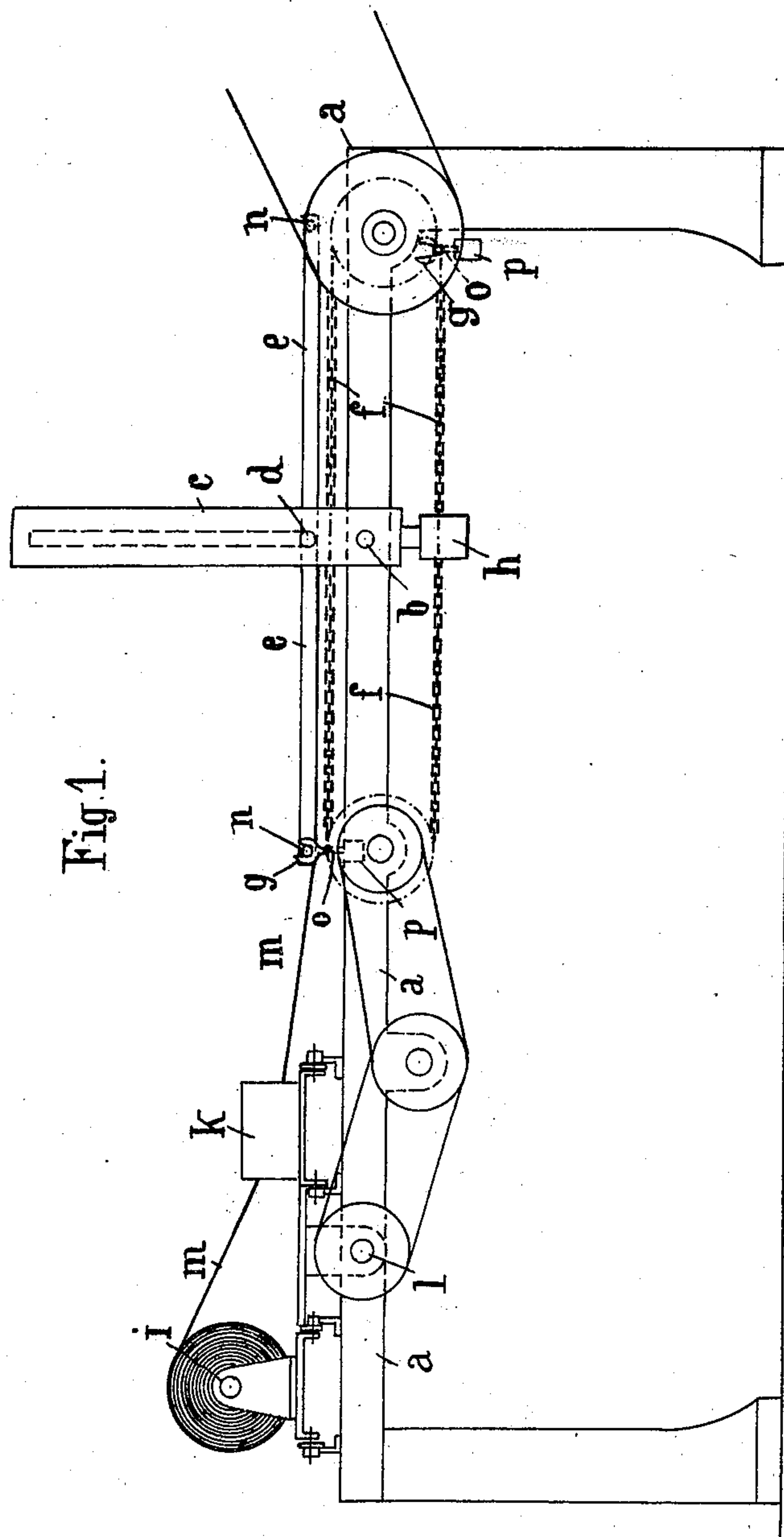


Fig. 1.

WITNESSES

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John A. Kueval

INVENTOR

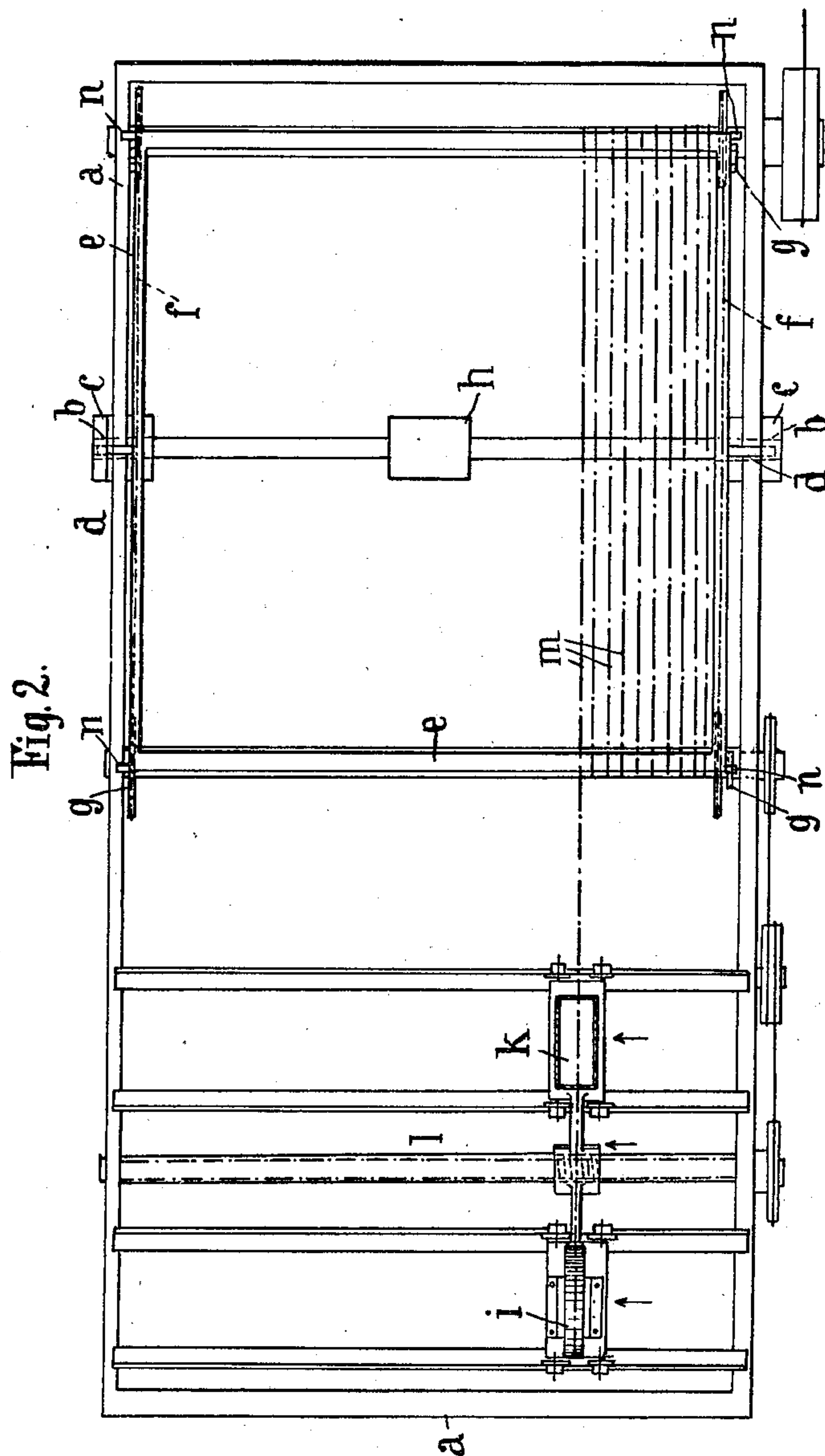
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3 SHEETS—SHEET 2.



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8 SHEETS—SHEET 3.

Fig.3.

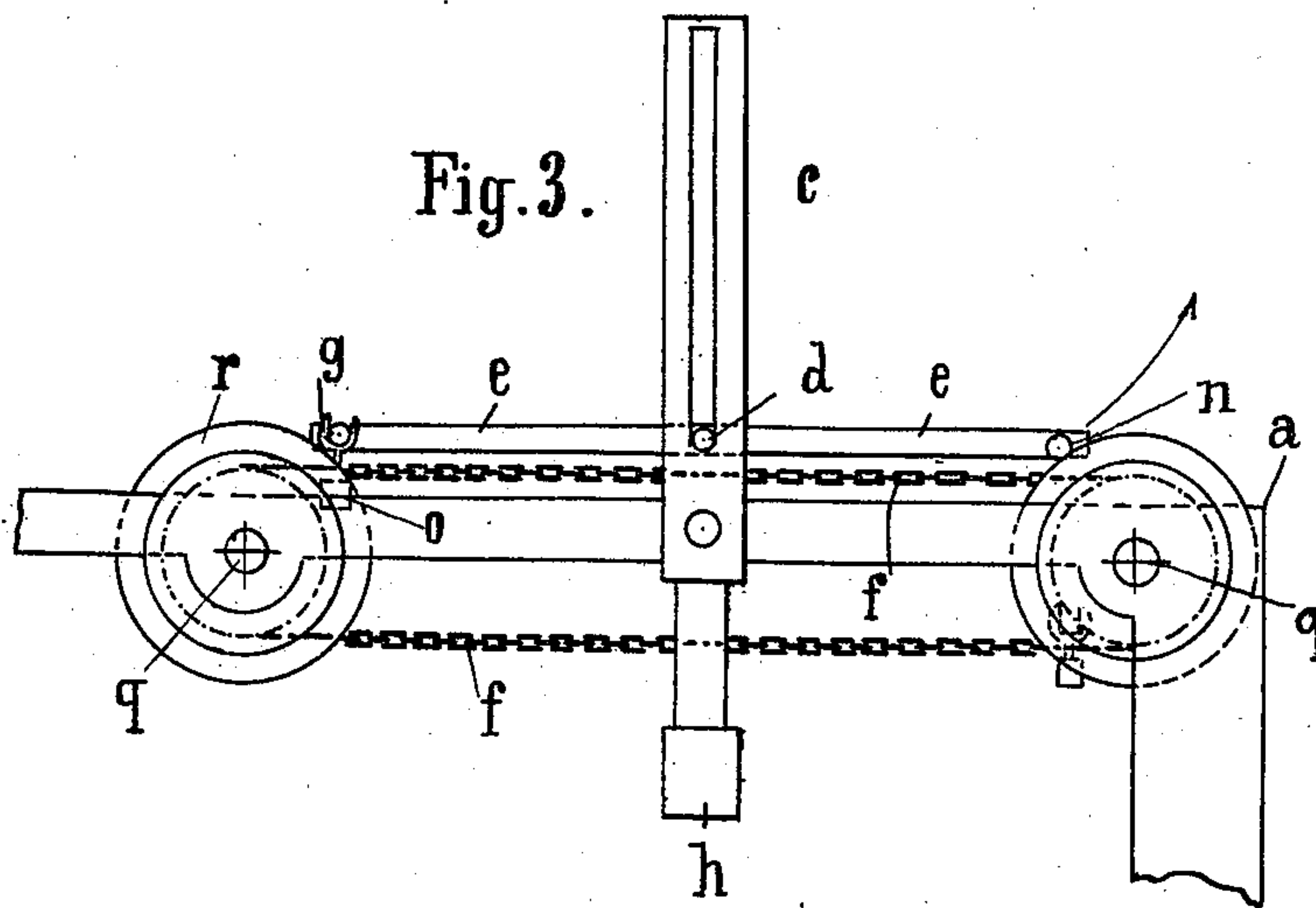
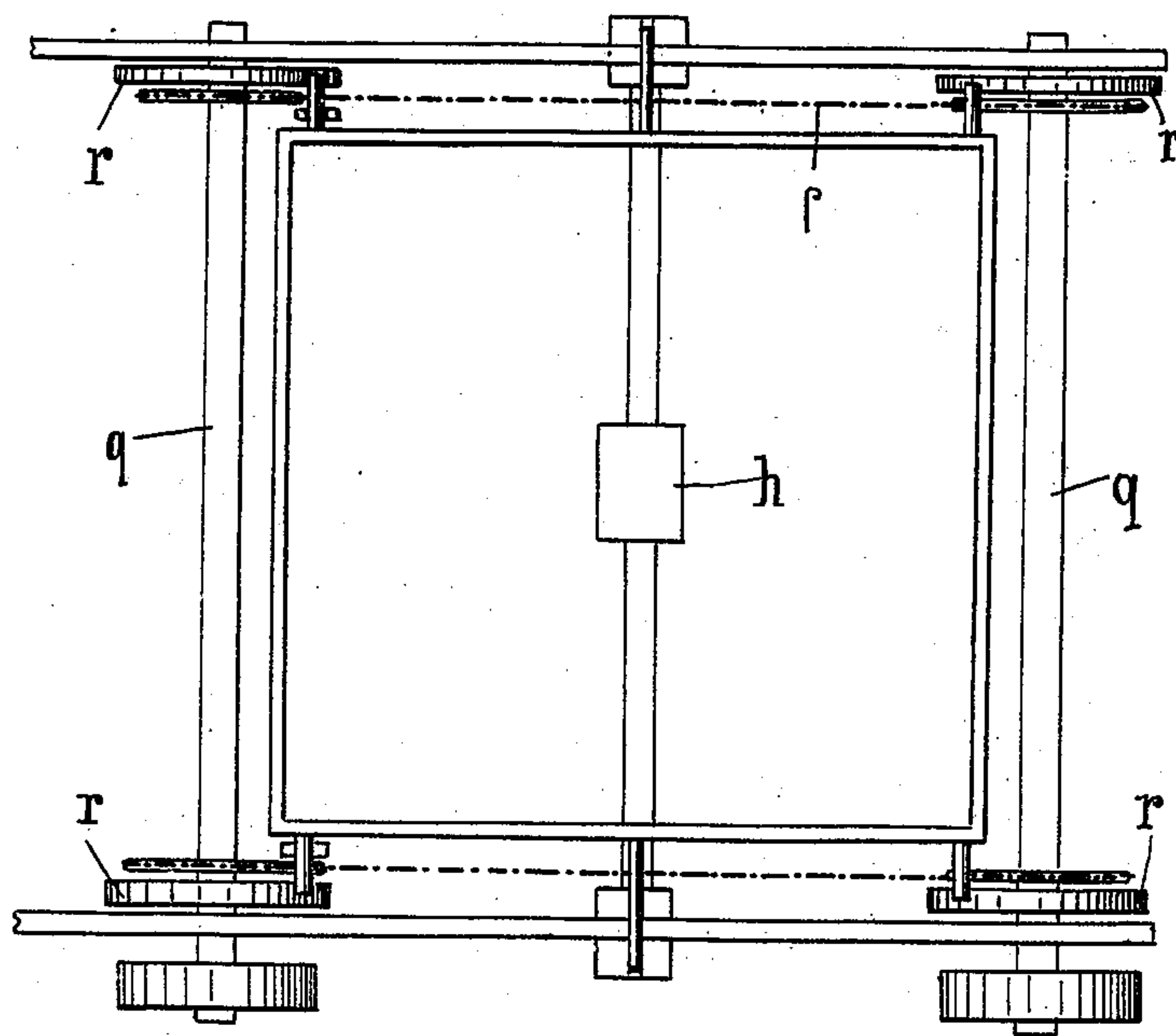


Fig.4.



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UNITED STATES PATENT OFFICE.

JULIUS JACOBSON, OF BERLIN, GERMANY.

WINDING DEVICE.

975,133.

Specification of Letters Patent.

Patented Nov. 8, 1910.

Application filed May 11, 1909. Serial No. 495,321.

To all whom it may concern:

Be it known that I, JULIUS JACOBSON, of Berlin, Germany, a subject of the German Emperor, have invented new and useful Improvements in Winding Devices, of which the following is a specification.

This invention relates more particularly to devices of this character adapted for winding up sticky products of all kinds.

10 The essential feature of the invention consists of a rotating frame or reel and means for feeding the material thereto in such a way that all of the windings will be parallel to one another. It is thus possible to wind 15 the material in a single layer upon the reel, which is especially desirable in the case of sticky materials as it avoids having superposed layers of the material which would stick together.

20 In the accompanying drawings containing two illustrative embodiments of this invention and in which the same reference numerals refers to similar parts in the several figures Figure 1 is a front view of the 25 machine. Fig. 2 is a plan view thereof. Figs. 3 and 4 are front and plan views showing a modified form of machine.

Referring to the drawings and especially Figs. 1 and 2, the machine bed *a* is provided 30 with uprights *c* pivotally supported upon a shaft *b*. The uprights *c* are provided with slots *c'* within which pintles *d* secured to the rotatable frame or reel *e* are adapted to slide. The reel *e* is provided adjacent its 35 ends with pins *n* and is rotated by means of catchers or grippers *g* carried by traveling chains *f* which may be driven in any suitable manner. The grippers engage the pins *n* and, as they move forward, the pintles will 40 be forced upwardly in the slots *c'*, thus permitting the reel *e* to be rotated through a half revolution, the grippers *g* being released from engagement with the pins *n* after the completion of such half revolution.

45 In Figs. 3 and 4 there is shown a modified form of construction in which the driving shaft *g* carries two disks *r*. These disks are of such a size and are so positioned upon the shaft that they act upon the pins *n* by 50 lifting them out of their terminal positions, thereby preventing the stopping of the

frame in the dead-point position shown in the drawing.

The reel is maintained in its normal horizontal position in any suitable manner, as 55 by means of a counterweight *h* attached to the shaft *b*. The material to be wound upon the reel *e* is conducted thereto from the roller *i* after first passing through a glue box *k*, as clearly shown in Figs. 1 and 2. 60 The roller *i* and box *k* are carried by a support which moves transversely of the machine bed, such movement being imparted by means of a spindle *l* having a thread engaging a threaded aperture in the support. 65 The spindle *l* is geared to the chain-driving medium, so that the support will move in a transverse direction as the reel *e* is rotated and the travel of the support is so governed that the material will be wound from 70 the roller *i* upon the reel *e* in a single layer.

Having described this invention in connection with the illustrative embodiment thereof to the details of which disclosure the invention is not of course to be limited, what 75 is claimed as new and what is desired to be secured by Letters Patent is set forth in the appended claims.

1. A winding device comprising a main frame, slotted uprights pivoted thereto, a 80 reel located between the uprights and having pintles engaging with the slots in the uprights, projections on the ends of the reel, an endless chain, and catches carried by the chain for engaging with the projections to 85 rotate and displace the reel in the upright.

2. A winding device comprising a main frame, slotted uprights pivoted thereto, a reel located between said uprights and hav- 90 ing pintles engaging with the slots, an endless chain, grippers carried thereby engaging within the ends of the reel for displacing and rotating the same with the uprights, and transversely slidable means for support- 95 ing the material to be wound on the reel.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JULIUS JACOBSON.

Witnesses:

HANS C. ANNIM,
ADELE LATHMANN.