

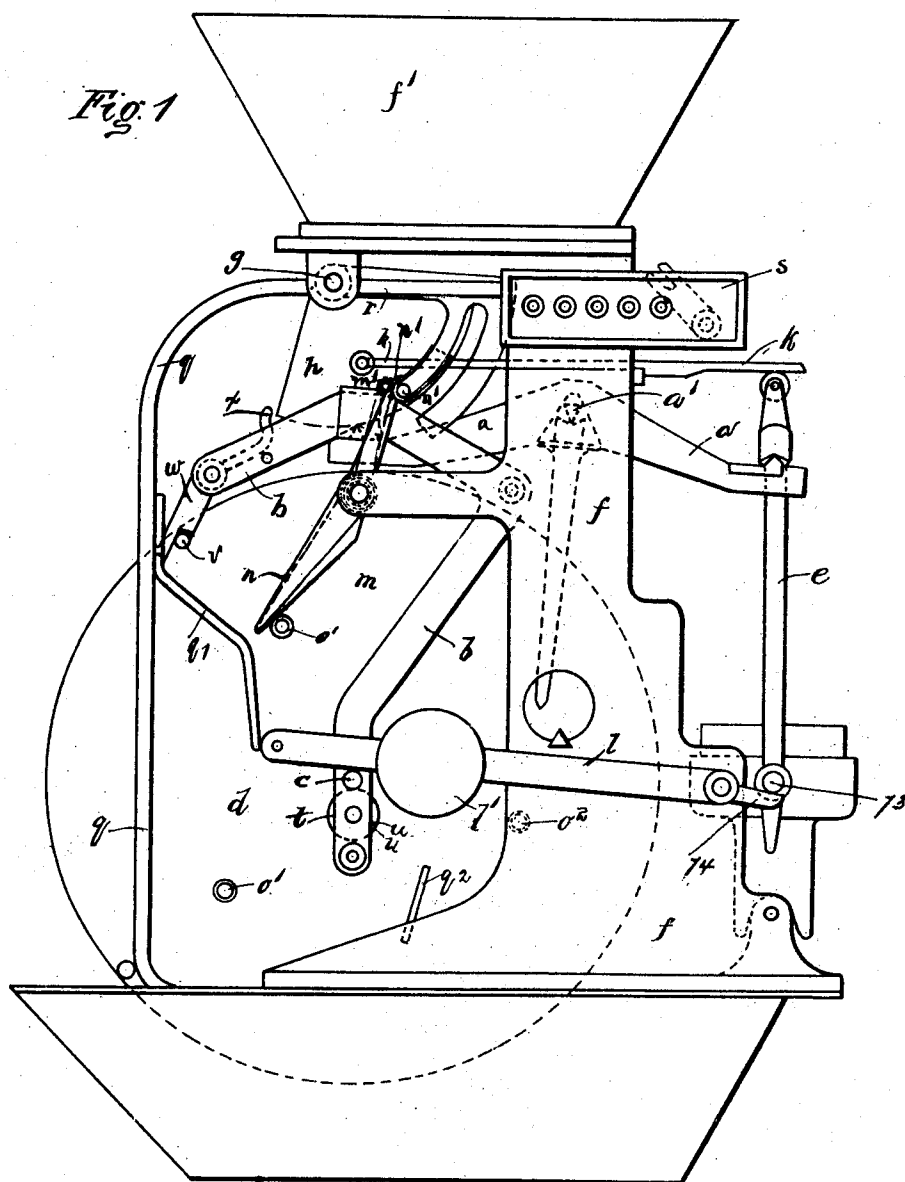
O. FRANK.

**AUTOMATIC WEIGHING MACHINE.**

(No Model.)

(Application filed May 29, 1899.)

2 Sheets—Sheet 1.



**Witnesses:**

*J. D. McMahon.*  
*E. Hoffmann.*

*Inventor,*  
*Otto Frank*  
*by B. Singer.*  
*Att'y.*

No. 666,748.

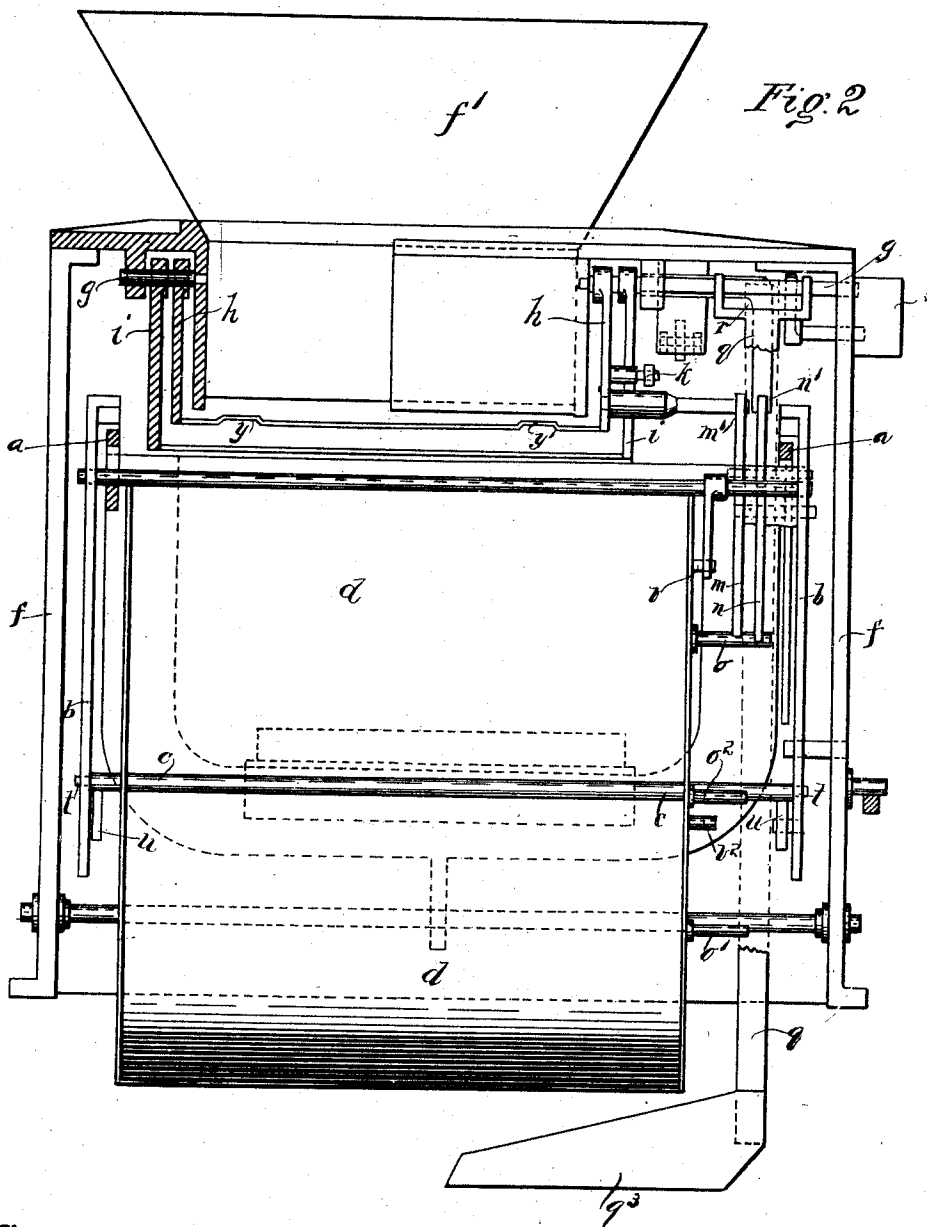
Patented Jan. 29, 1901.

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AUTOMATIC WEIGHING MACHINE.

(No Model.)

(Application filed May 29, 1899.)

2 Sheets—Sheet 2.



Witnesses:

J. D. McMahon.  
E. Hoffman.

Inventor,  
Otto Frank  
by T. Singer  
Atty.

# UNITED STATES PATENT OFFICE.

OTTO FRANK, OF BERLIN, GERMANY.

## AUTOMATIC WEIGHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 666,748, dated January 29, 1901.

Application filed May 29, 1899. Serial No. 718,740. (No model.)

*To all whom it may concern:*

Be it known that I, OTTO FRANK, manufacturer, a subject of the Prince Regent of Bavaria, residing at No. 35 Spener street, Berlin, in the Kingdom of Prussia, German Empire, have invented certain new and useful Improvements in Automatic Weighing-Machines, of which the following is a specification.

10 This invention relates to improvements in weighing-machines adapted to weigh material contained in packages, bags, or vessels of any description.

15 In the drawings forming a part of this application, Figure 1 is a side elevation of my improved machine; and Fig. 2 is a front elevation of same, partly in section.

While I have shown my improved weighing apparatus complete, the object of this application is to cover particularly a pivoted lever which is operated by a rotatable drum and in turn operates, with other parts, a registering mechanism, which forms no part of this invention. With the exception of said 25 lever the machine or apparatus shown is covered by German Letters Patent No. 101,495, of October 30, 1897.

Referring to the drawings, it will be seen that *a* represents a scale-beam pivoted on the 30 bearings *a'*, which carries, by means of bars *b*, the rotatably-mounted partitioned receiving-drum *d*, and on the opposite end of the beam is supported the poise-bar *e*. Above the drum *d* the frame *f* supports the inlet-hopper *f'*, to which are hinged the two inlet-flaps *h* and *i*, that swing upon a common axle *g*. A notched rod *k* is slidingly secured to the inlet-flap *h* and serves to arrest the flap in its opened position, as well as to limit the 40 movement of the scale when the poise-rod moves upward. When the drum is caused to rotate, the levers *m* and *n* cause the opening of the inlet-flaps *h* and *i* in such a way that one of the pins *o o' o²*, projecting from the drum, strikes the levers at their lower 45 ends, while their upper ends, by means of the parts *m' n'*, operate the inlet-flaps.

The bow-shaped lever *q* is fulcrumed at *g* to the frame of the machine and is furnished 50 with arms *q' q²*, that alternately lie in the

path of the pins *o o' o²* on the drum, so that said bow is swung outwardly thereby as the drum rotates. *s* represents a suitable registering device, which is connected with the bow-lever in any suitable manner and forms 55 no part of this application. The said bow-lever is so hung that when it is in its normal position it is vertical and maintains or returns to this position by gravity when released from the action of the aforesaid pins, thus 60 giving a reciprocating movement to said bow-lever. *l* and *l'* represent means for regulating the rotating of the drum and form no part of this application.

Pivoted on the end of one of the arms *b* is 65 a catch *w*, which engages pins *v v' v²* in the side of the drum, thereby preventing the backward turning of the drum while it is being filled. A projection *l³* on the poise-bar *e* engages the part *l³* of the lever *l* when the bar 70 is depressed, and thus moderates the vibration. A hook *x* may be used to lock the drum in position to be loaded.

Having thus described my invention, what I claim as new, and desire to secure by Letters 75 Patent, is—

1. In a weighing-machine of the class described, in combination with a rotatable receiving-drum, and a registering device, of a pivoted bow-lever having portions lying in 80 the path of projections on said drum, whereby the rotation of the drum will operate said bow-lever, and means connecting the latter with said registering device, as set forth.

2. In a weighing-machine of the class described, the combination of a rotatable receiving-drum, a lever pivoted to the frame of the machine and having inwardly-projecting bent arms lying in the path of projecting pins on said drum, and means connecting said lever with a suitable registering mechanism, 90 substantially in the manner and for the purpose set forth.

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

OTTO FRANK.

Witnesses:

WOLDEMAR HAUPT,  
HENRY HASPER.