

No. 871,647.

PATENTED NOV. 19, 1907.

G. W. STENZ.

SIEVE.

APPLICATION FILED MAY 25, 1907.

Fig. 1.

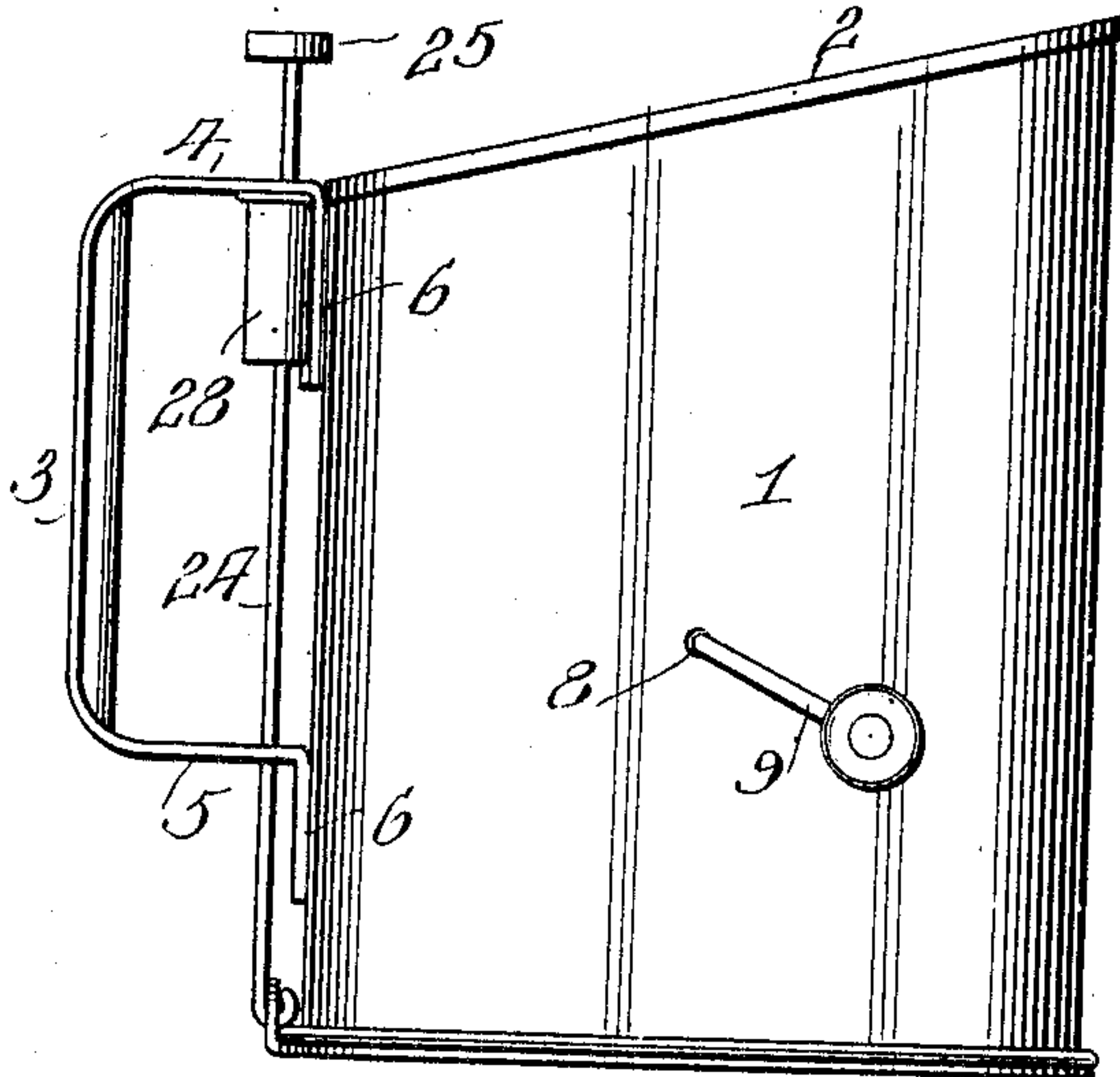


Fig. 3.

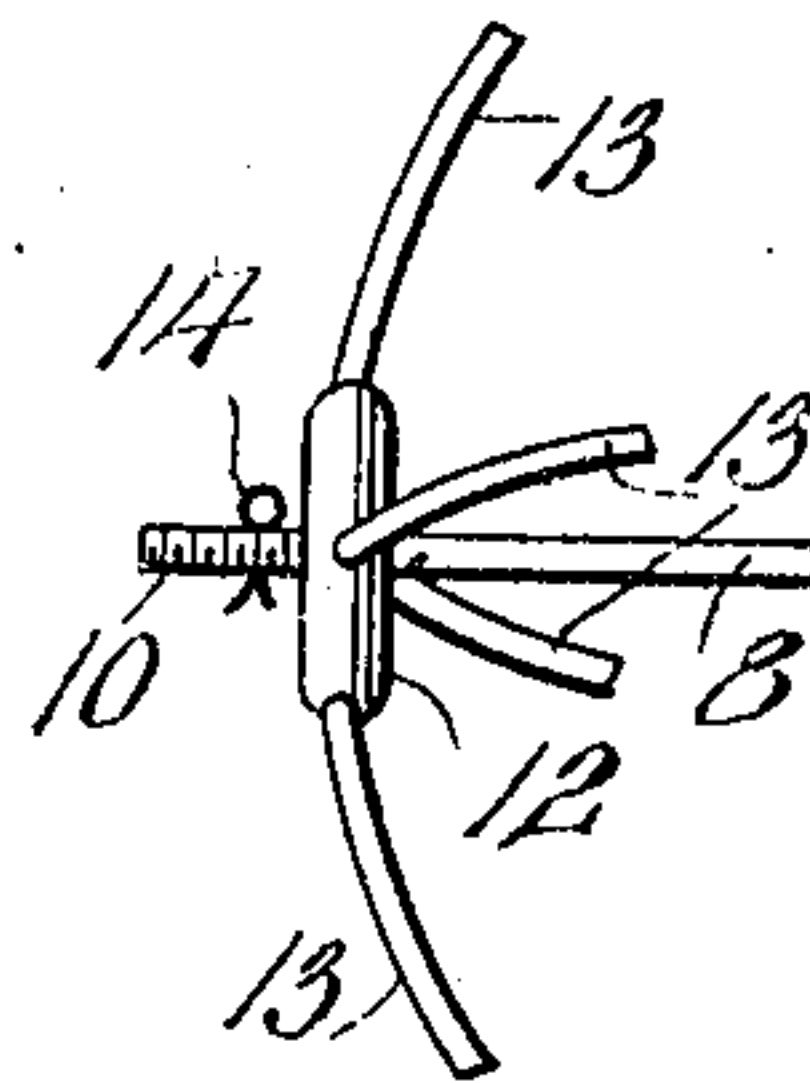


Fig. 4.

Fig. 2.

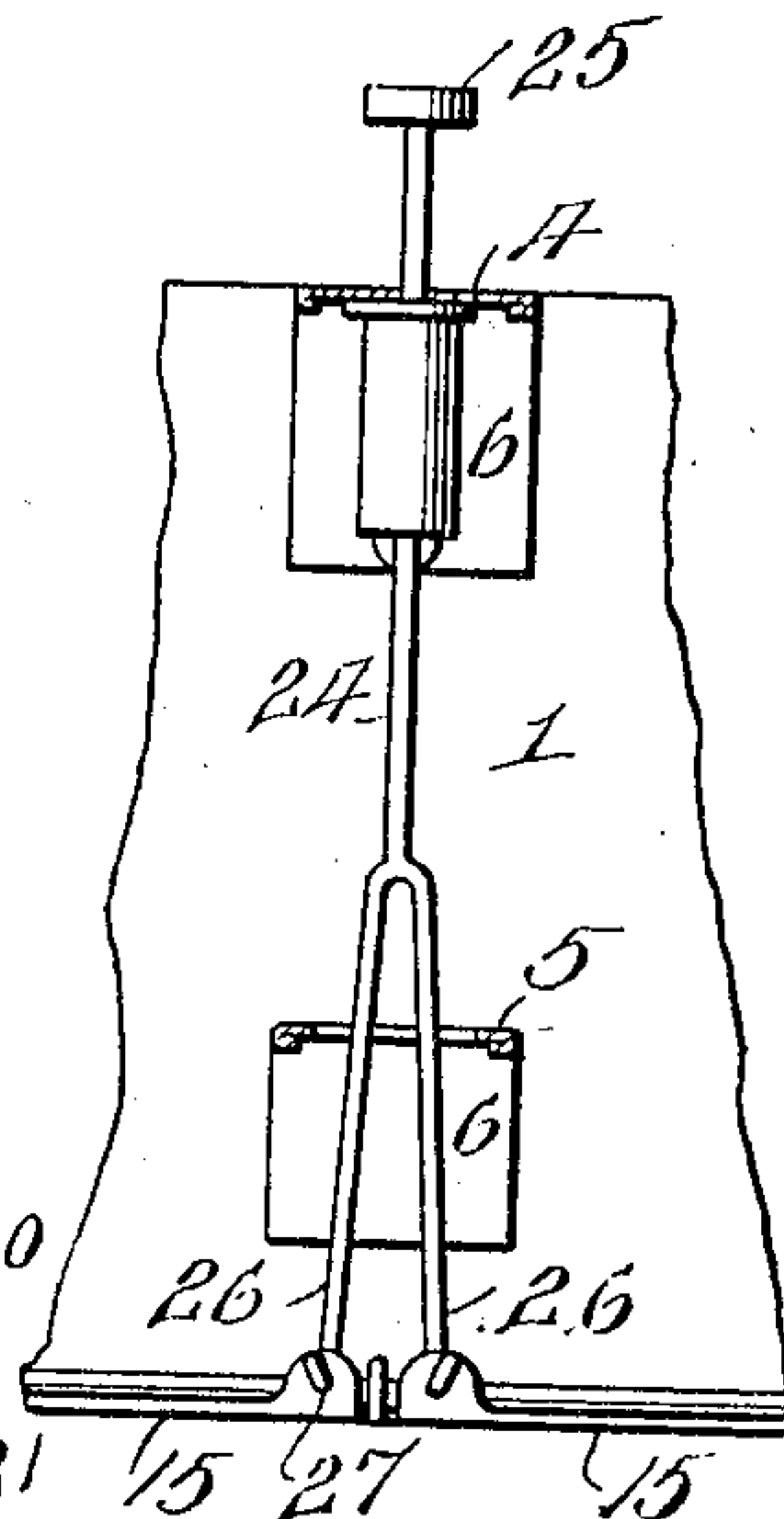
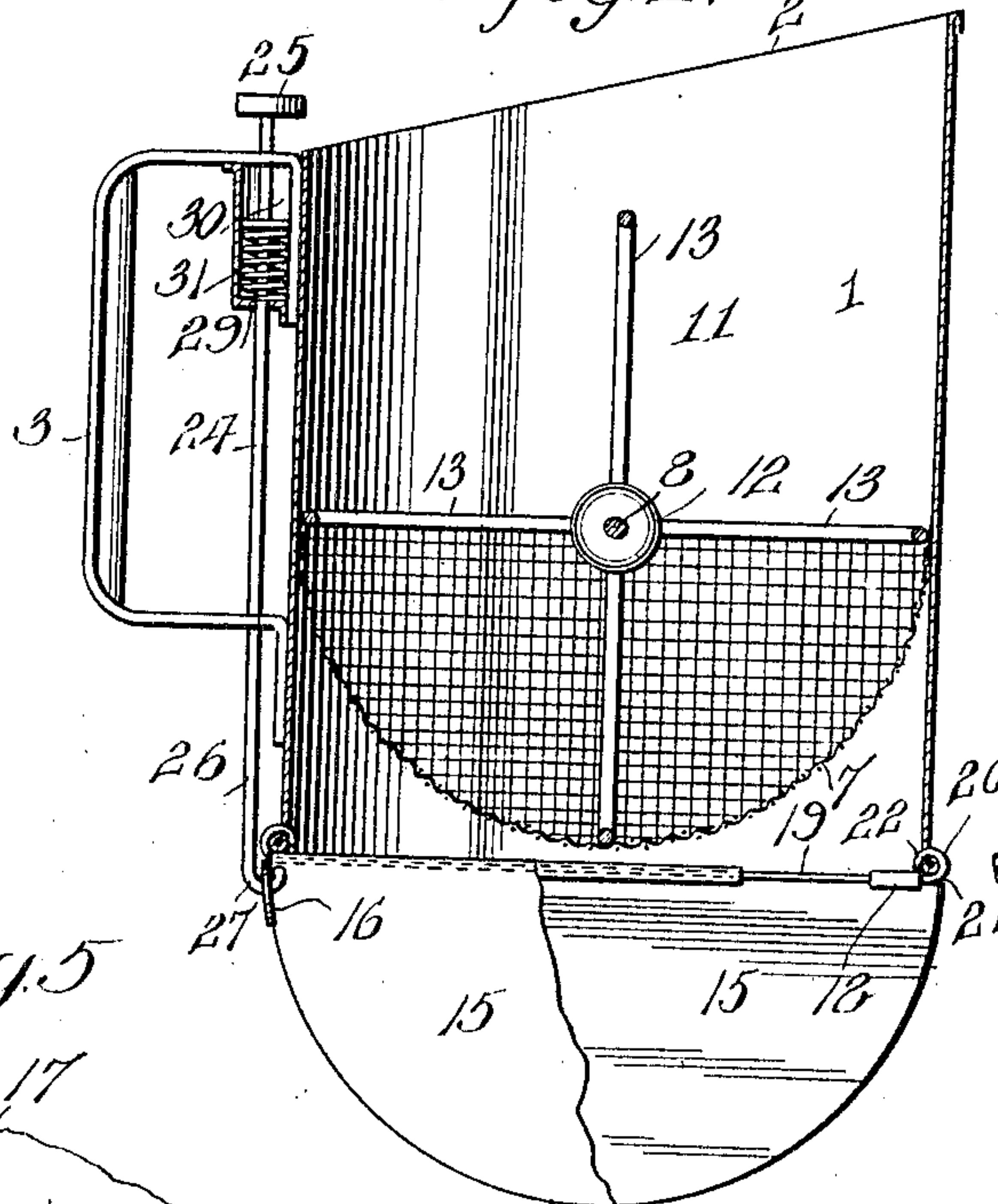
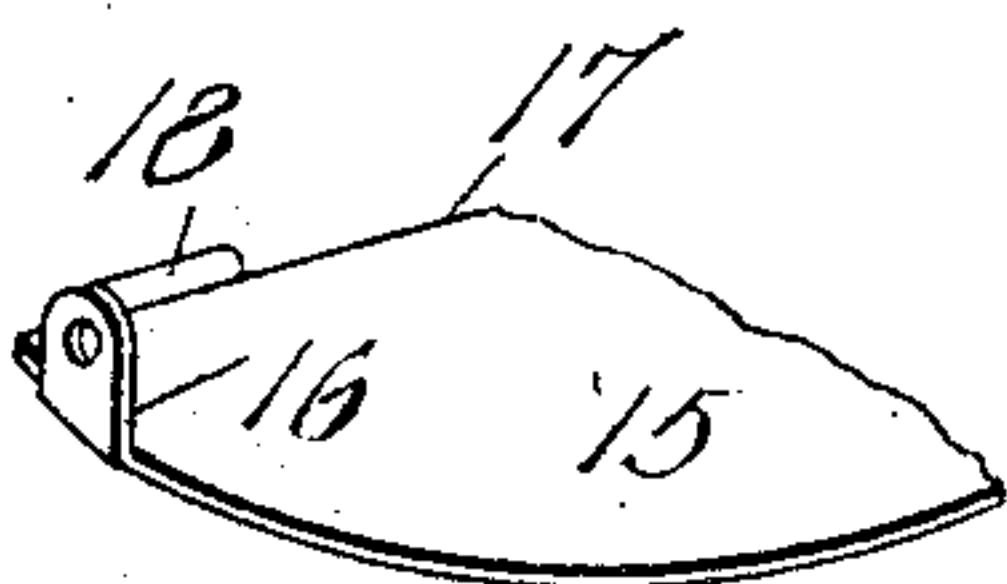


Fig. 5.



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No. 871,647.

Specification of Letters Patent.

Patented Nov. 19, 1907.

Application filed May 25, 1907. Serial No. 375,672.

To all whom it may concern:

Be it known that I, GEORGE W. STENZ, a citizen of the United States, residing at Ashland, in the county of Ashland and State of Wisconsin, have invented new and useful Improvements in Sieves, of which the following is a specification.

This invention is an improved sieve or sifter especially adapted for use in sifting flour or meal, but which may be also used for sifting other commodities and which is especially adapted for domestic use and the said invention consists in the construction, combination and arrangement of devices hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a side elevation of a sifter embodying my invention, showing the same with its wings or closures in normally closed position. Fig. 2 is a sectional view of the same, showing the wings or closures in open position. Fig. 3 is a detail elevation of the revoluble beater reel. Fig. 4 is a detail elevation of a portion of the cylindrical body of the sifter, showing the inner portions of the wings or closure, the operating rod therefor and also showing the handle, the latter being indicated in section. Fig. 5 is a detail perspective view of a portion of one of the wings or closures.

The body 1 of my improved sieve or sifter is cylindrical in form, is open at its upper and lower ends, and its upper end is beveled or inclined, as at 2, to enable the body to be readily used as a scoop for scooping up flour, meal or other like commodities. On the shorter side of the said cylindrical body is a handle 3 having upper and lower arms 4—5, each provided with a down-turned portion 6, soldered or otherwise suitably secured to the outer side of the cylindrical body.

In the lower portion of the cylindrical body and attached thereto is a screen 7 made of wire cloth or other suitable foraminous material, and which is semi-spherical in form. A shaft 8 extends transversely through the cylindrical body, has its bearings in the sides thereof, is provided at one end with a crank 9 by means of which it may be readily rotated and its opposite end is screw-threaded, as at 10. On the said shaft is a beater 11 which comprises a pair of hub devices 12 secured on the shaft just within the sides of the body 1 and curved wires 13 of which any suitable number may be employed, said wires being preferably semi-circular in form and corresponding in

radius with the screen 7 on which they operate. A link 14 is here shown extending through the opening in the screw threaded end of the shaft 8 and coacts with the proximate hub element or device 12 to lock the tube of shaft 8 in the body 1 and secure the same against casual longitudinal movement and disengagement from such body.

I provide a pair of semi-circular wings 15 which act as closures for the lower end of the body. Such wings are each made of a single piece of sheet metal, are provided each at one corner with lugs 16 bent at right angles and are provided at their straight edges with hinge lugs 18, through which extend pintle rods 19 that are disposed in parallel relation, transversely with reference to the cylindrical body 1 and have their ends bent to form hooks 20 that pass around the reinforce wire 21 at the lower end of said body and also pass through openings 22 in said body near said reinforce wire.

A vertically disposed wing operating rod 24 extends through openings in the arms 4—5 of the handle 3 and is provided at its upper end with a press button 25 which may be conveniently pressed by the thumb of the hand which grasps the handle. The lower portion of the said rod is bifurcated to provide downwardly diverging fork arms 26 which are respectively pivotally connected to the lugs 16 of the wings 15, as at 27. The said fork arms of the said rod 24 operate in and pass through a slot in the lower handle arm 5. In the angle between the upper arm 4 of the handle and the down-turned portion 6 of said arm, is secured a cylindrical casing 28 having a bottom 29 provided with a central opening through which the rod 24 extends. Said rod is provided, at a point within said casing, with a stop element 30. In the lower portion of the said casing is a coiled extensile spring 31 which bears between the bottom 29 of said casing and the said stop 30 of the rod 24 and serves to normally move said rod upwardly to cause said rod to close the wings 15 against the bottom of the body 1, as will be understood. By depressing the said rod, by means of the button 24 in the manner indicated, the wings 15 may be disposed in a vertical position transversely under the body 1 so as to open the bottom of said body and hence permit the contents thereof to be discharged therefrom.

It is thought the advantages and operation

of my improved sifter will be fully understood from the foregoing specification. The casing 28 in which the operating spring of the wing or closure operating rod is placed, prevents such spring from becoming clogged with flour or other material and rendered inoperative.

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

The herein described sifter comprising a body open at its lower end and having a handle on one side, a screen in said body, a revoluble beater in said body to coact with said screen, a pair of wings forming closures for the body, each having a hinged connection with the body and provided with a lug near such hinged connection, an operating

rod for said wings having fork arms respectively connected to the lugs of such wings, a casing in the angle between the handle and the body, said operating rod passing through the handle and the said casing, and provided with a stop element in said case, and a spring in said casing, concealed and guarded thereby and bearing between the said stop element and one end of the said casing and acting upon the rod to cause the latter to normally maintain the wings in closed position.

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

GEORGE W. STENZ.

Witnesses:

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