

Jan. 6, 1925.

1,521,663

H. E. WITT

DRYING CABINET

Filed Dec. 7, 1923

2 Sheets-Sheet 1

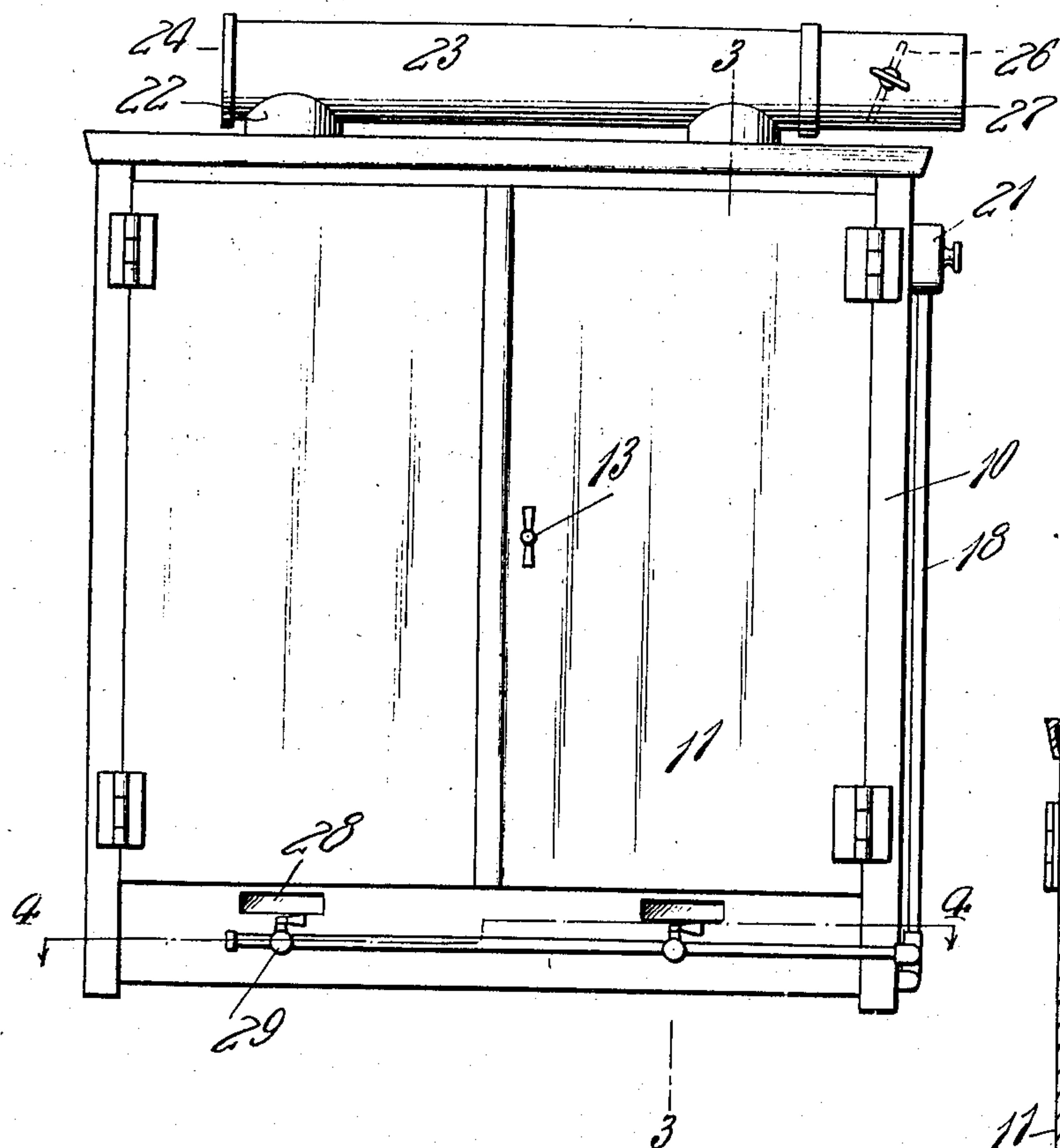


Fig. 1.

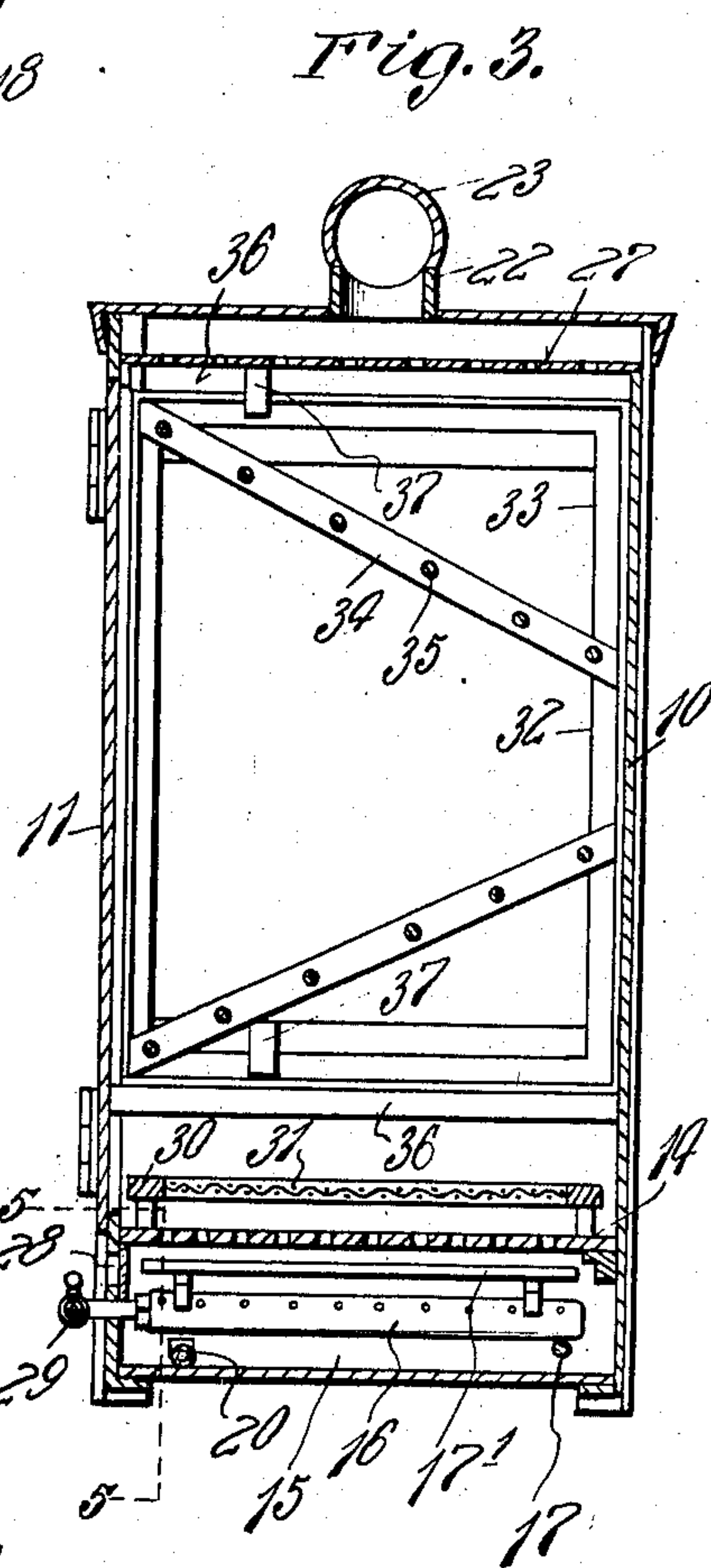


Fig. 3.

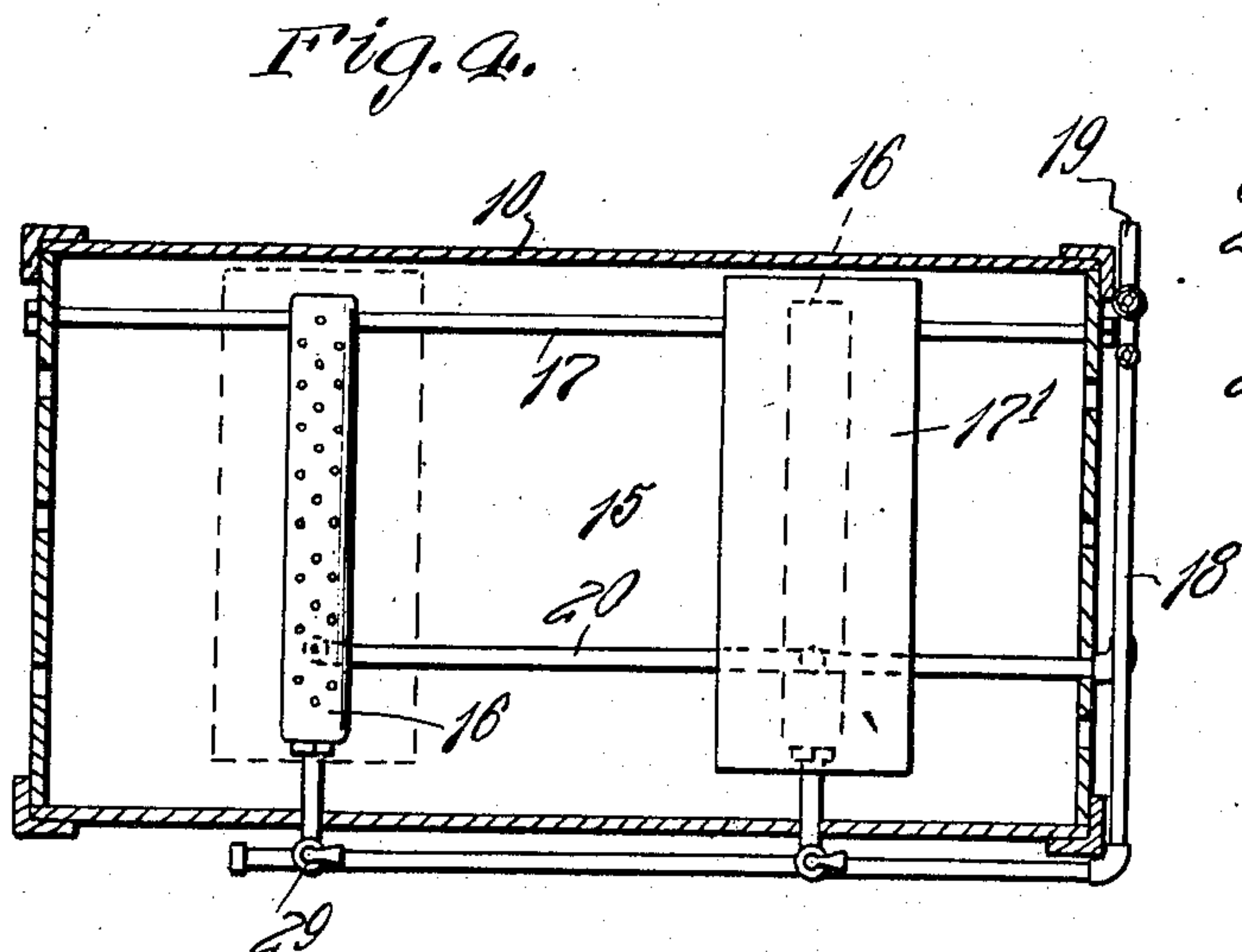


Fig. 4.

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2 Sheets-Sheet 2

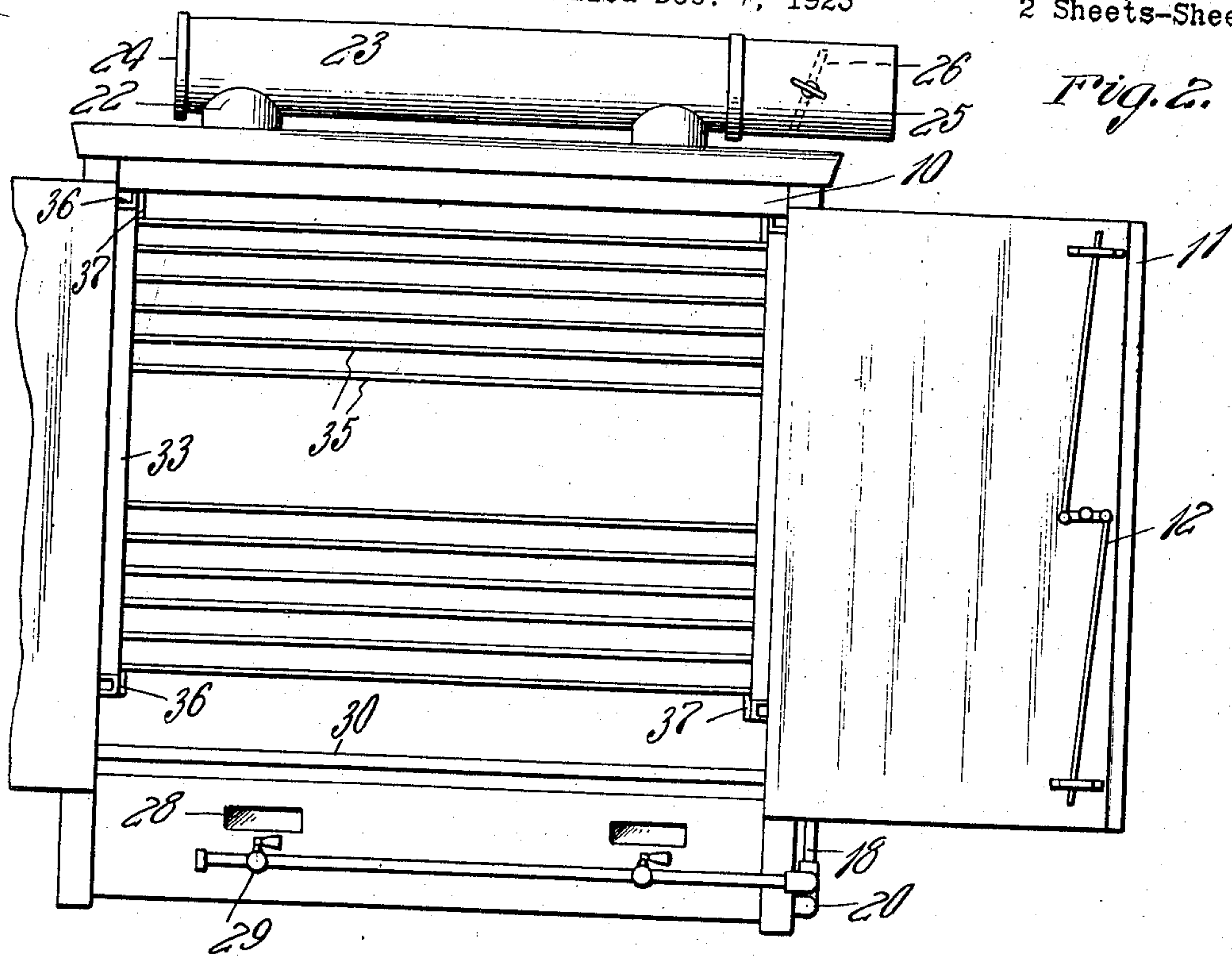


Fig. 6.

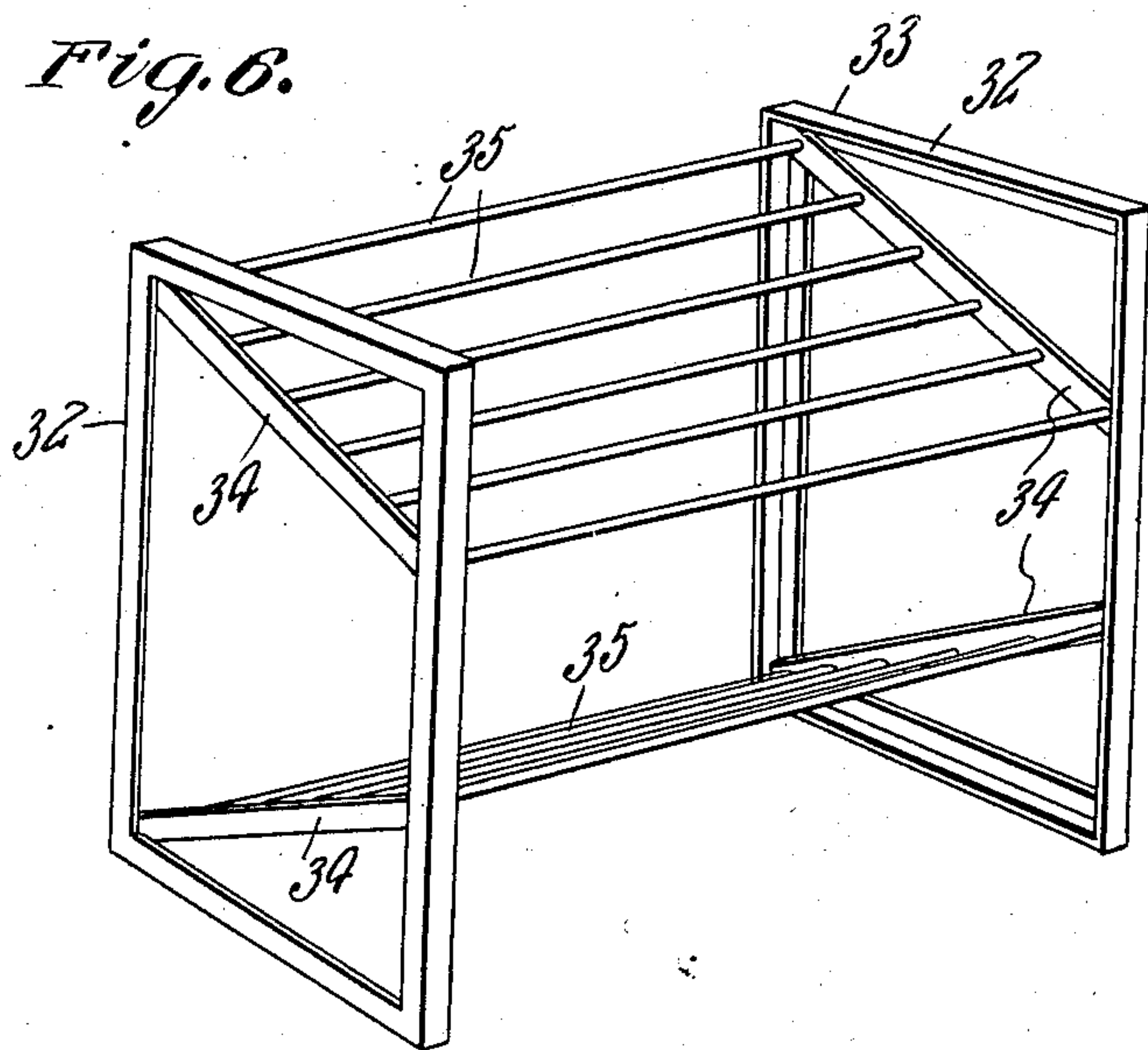
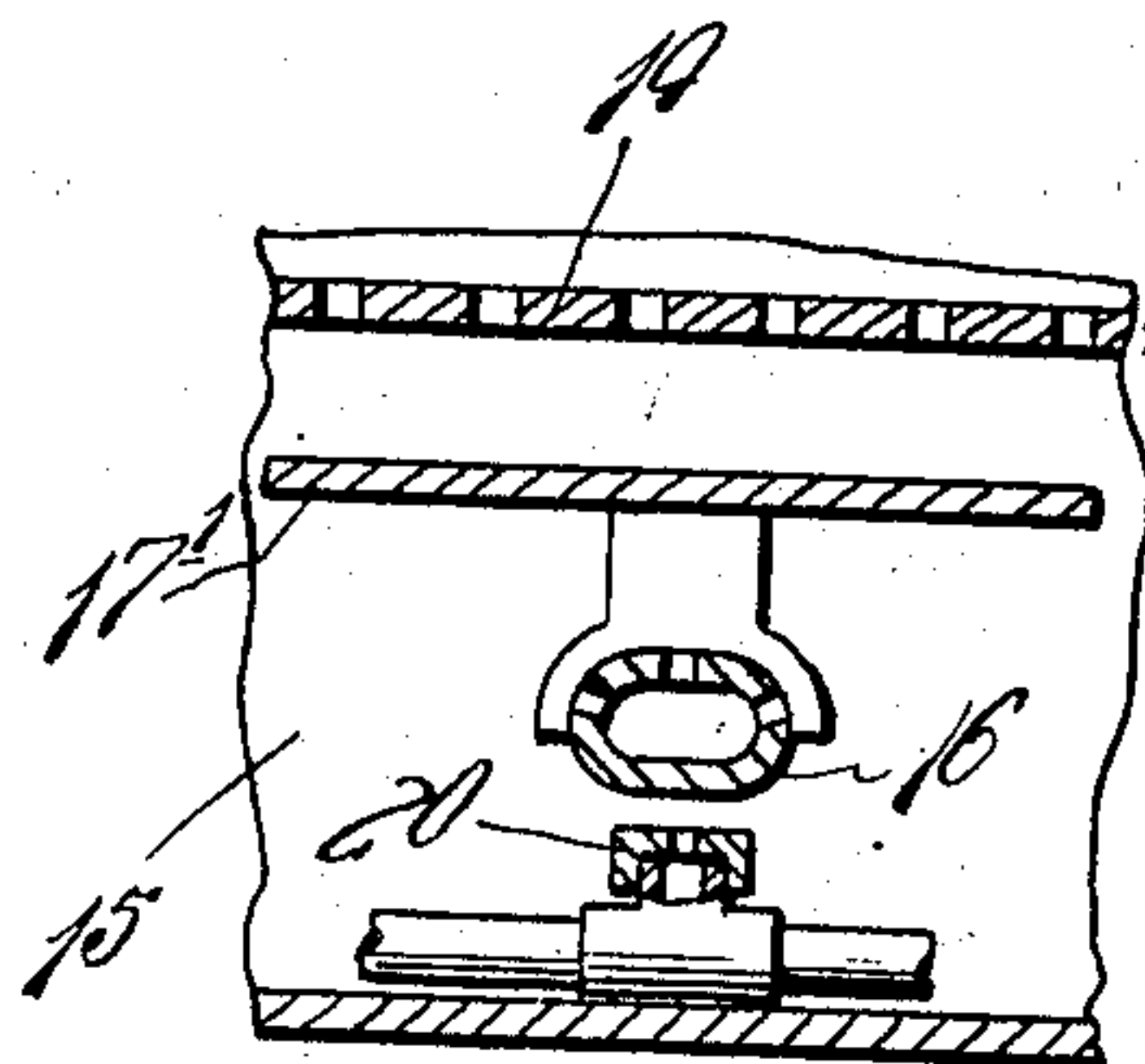


Fig. 5.



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UNITED STATES PATENT OFFICE.

HUGH E. WITT, OF WINCHESTER, KENTUCKY.

DRYING CABINET.

Application filed December 7, 1923. Serial No. 679,191.

To all whom it may concern:

Be it known that I, HUGH E. WITT, a citizen of the United States, residing at Winchester, in the county of Clark and State of Kentucky, have invented new and useful Improvements in Drying Cabinets, of which the following is a specification.

This invention relates to improvements in drying cabinets and has for an object the provision of a cabinet of this character which is especially adapted for drying clothes.

Another object of the invention is the provision of means for insuring an even distribution of heat throughout the cabinet so that articles therein will be uniformly dried; and for regulating the draft and controlling the degree of heat, so that the articles will be dried within the shortest time possible without danger of scorching.

Another object of the invention is the provision of means for preventing contact of the articles with the source of heat or any part of the cabinet which might be heated to an extent where danger of scorching would occur.

Another object of the invention is the provision of a novel form of drying rack, together with means whereby the rack may be slid outward to facilitate hanging and removing the articles.

With the above and other objects in view, the invention further includes the following novel features and details of construction, to be hereinafter more fully described, illustrated in the accompanying drawings and pointed out in the appended claims.

In the drawings:—

Figure 1 is a front elevation of a cabinet constructed in accordance with the invention, the doors of the cabinet being closed.

Figure 2 is a similar view with the doors open.

Figure 3 is a section on the line 3—3 of Figure 1.

Figure 4 is a similar view on the line 4—4 of Figure 1.

Figure 5 is a section on the line 5—5 of Figure 3.

Figure 6 is a detail perspective view of the drying rack.

Referring to the drawings in detail wherein like characters of reference denote corresponding parts, the cabinet is shown as comprising a casing 10 which is open at

the front and which is adapted to be closed by means of hingedly mounted doors 11. These doors have their free edges overlapping and one of the doors is provided with upper and lower oppositely movable bolts or latches 12 which are operatively connected to a handle 13, by means of which the bolts or latches may be manipulated and the doors opened and closed.

The bottom of the cabinet 10 has spaced upwardly therefrom a false or supplemental bottom 14 which is provided with spaced perforations and which is located substantially on a line with the lower edge of the door opening so as to provide between this supplemental bottom and the bottom of the casing 10, a burner compartment 15. Extending into this compartment 15 are burners 16, whose inner ends are supported upon a bar 17, while located above each of the burners beneath the supplemental bottom 14 are baffle or heat distributing plates 17. These plates act to spread the heat laterally with respect to the burners and the said burners are so positioned that the heat will be distributed upward through all of the openings in the supplemental bottom 14 and an even distribution of heat throughout the area of the cabinet will be assured.

Fuel, preferably gas is supplied to the burners through a pipe 18 having an extension 19 for connection with a suitable source of supply, while a pilot burner 20 extends over the pipe 19 beneath each of the burners. Arranged within the pipe 18 is a heat regulator or thermostat 21 by means of which the degree of heat may be accurately regulated so that the articles within the cabinet may be dried within the shortest possible time without danger of scorching.

The top of the cabinet 10 is provided with outlet openings from which extend short pipe sections 22, the latter being connected by means of a pipe 23 which is preferably flattened to reduce the height of the cabinet. One end of the pipe 23 is provided with a removable cap 24 while its opposite end is provided with a removable section 25 in which is positioned a damper 26. By this means draft through the cabinet may be regulated so that the passage of heat upward may be retarded or facilitated so as to regulate the said passage of heat in accordance with the amount of heat furnished by the burners. The top of the cabinet is pro-

vided with a baffle plate or false top 27 having perforations therein so that direct draft through the pipes 22 is prevented and the heat permitted to circulate for the thorough drying of the clothes. In addition, the regulation of the heat and the regulation of the draft is such as to insure free circulation of the heat waves upward throughout the entire area of the drier, which circulation acts to thoroughly dry the clothes while the hot air tends to whiten or bleach them.

The front of the casing is provided with transparent covered openings 28 which are located above valves 29 which control the burners.

Located within the casing and spaced above the supplemental bottom 14 is a removable frame 30 having a screen cover 31. This frame is positioned directly above the bottom 14 and acts to protect articles within the casing by preventing their contact with the bottom 14.

Located within the cabinet is a rack 32 which is formed of spaced rectangular frames 33, the latter including oppositely inclined upper and lower bars 34. These bars are connected by rods 35 which act to support the articles to be dried. The rack 32 is slidably mounted within the cabinet and for this purpose the opposite walls of the latter are provided with upper and lower horizontally arranged ribs 36 which receive the frames 33 between them. The upper ribs are provided with stops 37 to limit the outward movement of the rack.

The invention is susceptible of various changes in its form, proportions and minor details of construction and the right is herein reserved to make such changes as properly fall within the scope of the appended claims.

Having described the invention what is claimed is:—

1. A drying cabinet embodying a casing open at the front and provided with an outlet at the top thereof, doors for the front of the casing, a supplemental bottom having openings therein and spaced from the casing bottom to define a burner compartment, burners in said compartment, heat distributing plates located within the burner compartment over the burners, a drying rack, a valve for controlling the outlet in the top

of the casing and a perforated baffle plate in the top of the cabinet.

2. A drying cabinet embodying a casing open at the front, doors for closing the casing, a supplemental bottom having openings therein and spaced from the casing bottom to define a burner compartment, burners in said compartment, heat distributing plates located within the burner compartment over the burners, a drying rack, spaced outlet pipes extending from the top of the cabinet, a pipe connecting the outer ends of the outlet pipes, a damper located within the connecting pipe and regulating the draft through the cabinet and a perforated baffle plate in the top of the cabinet.

3. A drying cabinet embodying a casing open at the front and provided with an outlet in the top thereof, doors for closing the front of the casing, a supplemental bottom having openings therein and spaced from the casing bottom to define a burner compartment, burners in said compartment, heat distributing plates located within the burner compartment over the burners, a drying rack, and a horizontally disposed screen located between the rack and spaced above the supplemental bottom.

4. A drying cabinet embodying a casing open at the front, doors for the casing, a source of heat at the bottom of the casing, an outlet at the top of said casing, a drying rack, said rack comprising substantially rectangular end frames, upper and lower spaced rods connecting the frames and horizontally arranged upper and lower guide ribs extending from opposite walls of the casing to slidably receive the end frames of the rack.

5. A drying cabinet embodying a casing open at the front and having an outlet in the top thereof, doors for the front of the casing, a source of heat at the bottom of the casing, a drying rack, said rack comprising substantially rectangular end frames including upper and lower relatively inclined bars, spaced rods connecting the bars and means for removably supporting the rack within the casing.

In testimony whereof I affix my signature.

HUGH E. WITT.