

C. J. WOLFE.
DOOR OPERATING MECHANISM.
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917,230.

Patented Apr. 6, 1909.

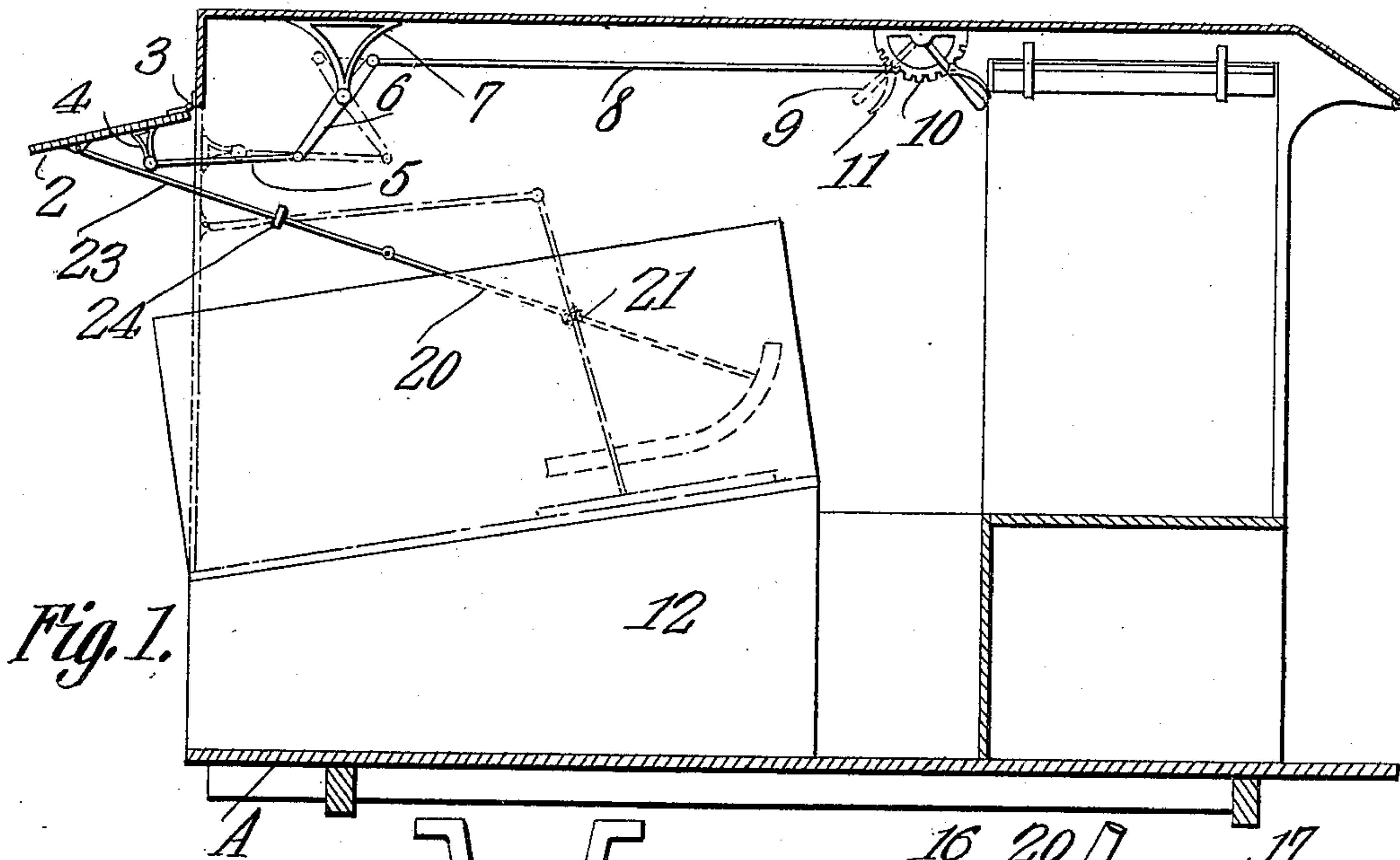


Fig. 1.

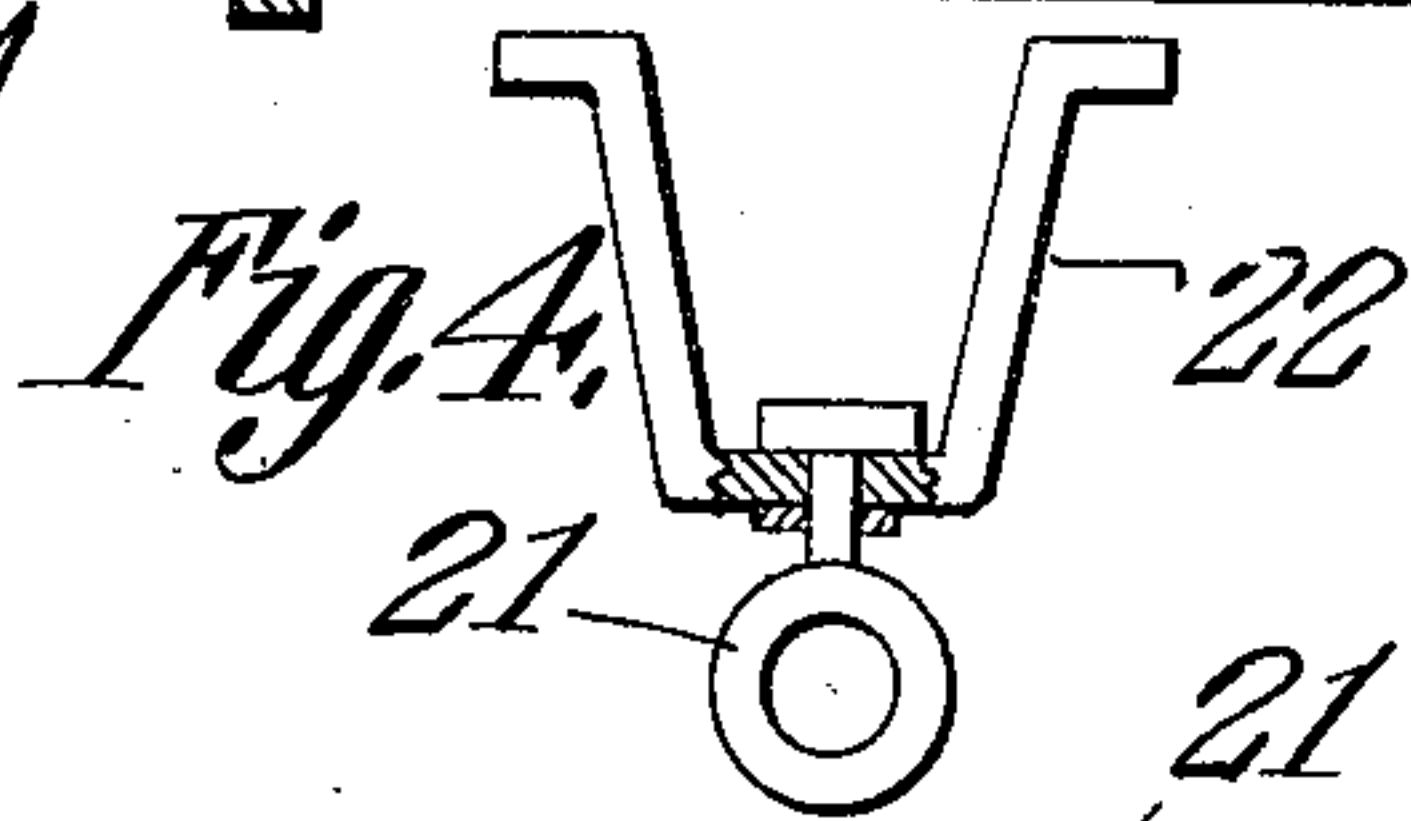


Fig. 4.

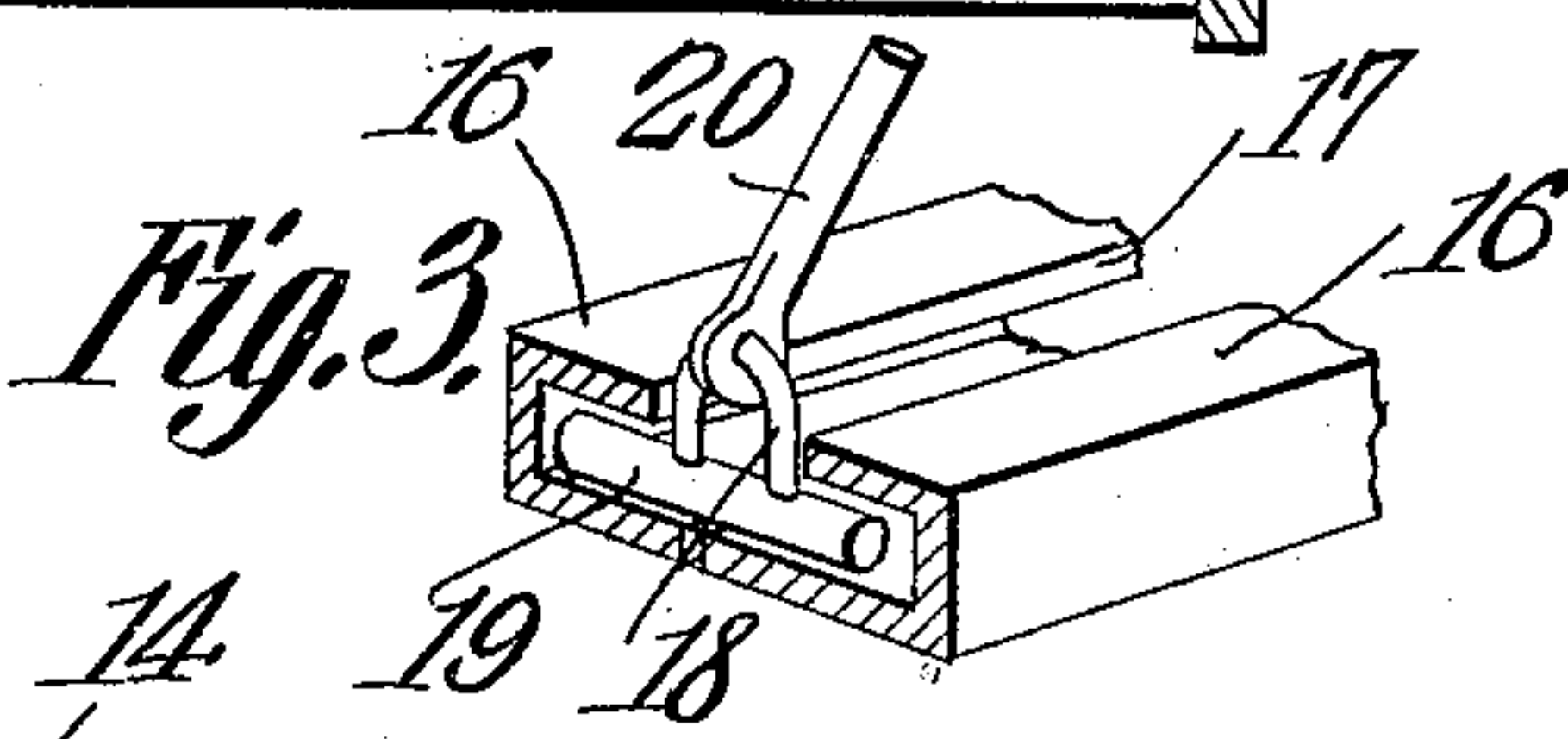


Fig. 3.

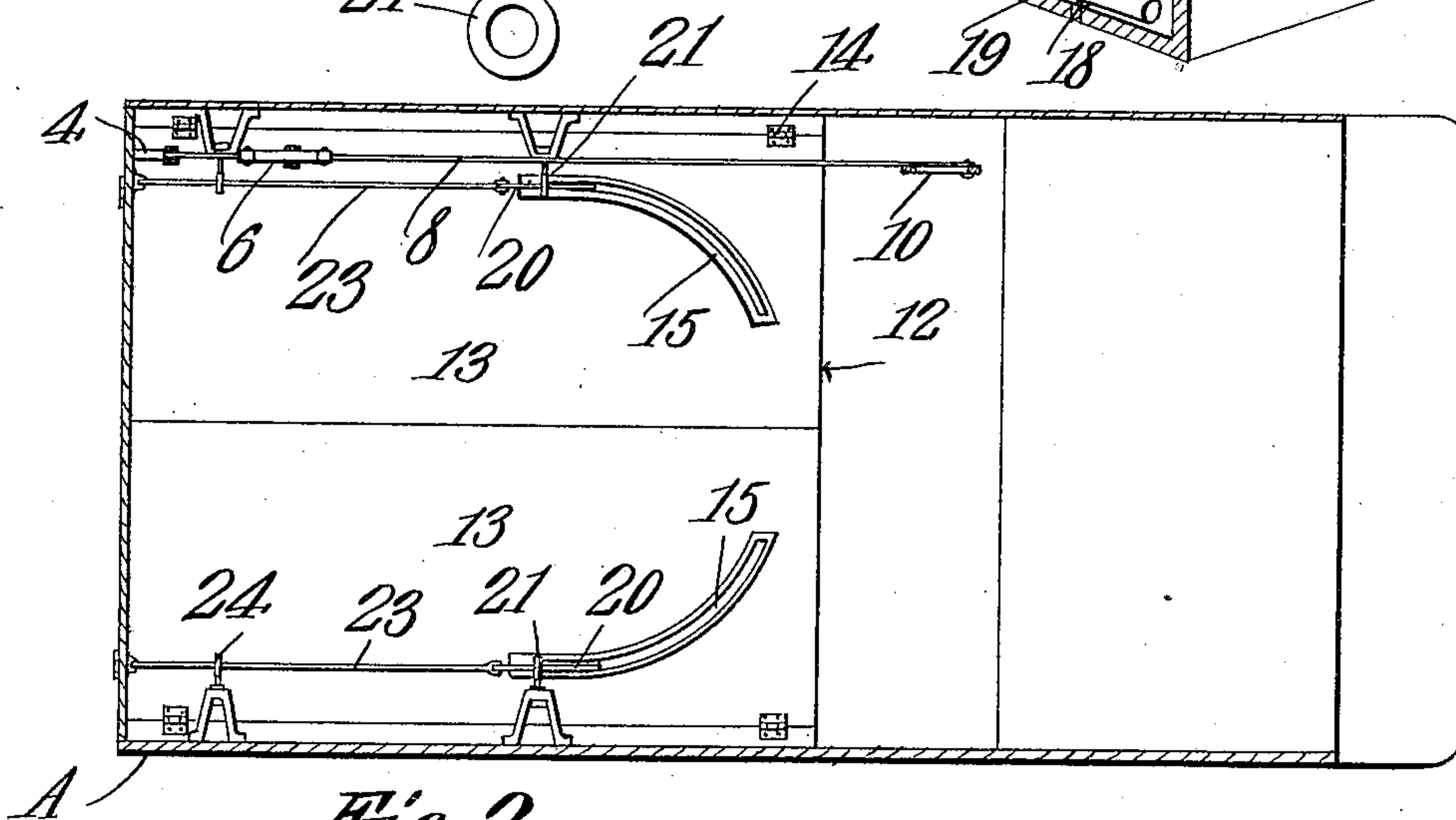


Fig. 2.

Witnesses

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UNITED STATES PATENT OFFICE.

CHARLES J. WOLFE, OF HUMMELSTOWN, PENNSYLVANIA.

DOOR-OPERATING MECHANISM.

No. 917,230.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES J. WOLFE, a citizen of the United States, residing at Hummelstown, in the county of Dauphin and State of Pennsylvania, have invented a new and useful Door-Operating Mechanism, of which the following is a specification.

This invention relates to door operating mechanism and is particularly designed for use on butcher or meat wagons.

The object of the invention is to provide simple mechanism which can be readily operated by a person occupying the driver's seat of the wagon, for the purpose of opening the door or doors of the wagon and also at the same time raising the hinged covers of the meat boxes within the wagon.

A further object is to provide mechanism of this character which is entirely housed within the wagon body and which occupies a comparatively small space therein.

With these and other objects in view the invention consists of certain novel features of construction and combinations of parts which will be hereinafter more fully described and pointed out in the claims.

In the accompanying drawings is shown the preferred form of the invention.

In said drawings: Figure 1 is a central vertical longitudinal section through a wagon body having the present improvements therein, the doors being shown in full lines in open position and in dotted lines in closed position. Fig. 2 is a plan view of the wagon body and the parts therein, the top of said wagon body being removed and the doors being closed. Fig. 3 is a detail view of the sliding connection between the track of one of the doors and the operating lever thereof. Fig. 4 is a detail view of one of the swivel guides.

Referring to the figures by characters of reference, A designates a wagon body having a rear door 2 hinged at its upper edge as shown at 3 and designed to swing outwardly and upwardly. This door has a bracket 4 fastened to its inner face and connected by means of a rod 5 with one end of a lever 6 which is fulcrumed upon a bracket 7 depending from the top of the wagon body. A rod 8 is pivotally connected to the other end of the lever and is attached to an actuating lever 9 pivotally connected to the top of the wagon body adjacent the front thereof. A toothed segment 10 is disposed adjacent the actuating lever and said lever carries a pawl

11 designed to engage this segment 10 so as to lock the parts in any position to which they may be shifted. A meat box 12 is located upon the bottom of the wagon body and is preferably provided with two inclined closures 13 which are hinged to the sides of the box and close to the sides of the wagon body, as indicated at 14. Each of these closures has a curved guide track 15 extending from a point adjacent the hinged edge thereof and forwardly to a point adjacent the front end thereof. Each of these tracks is preferably formed of two curved concentric angle irons 16 spaced apart to form a slot 17 in which travels a loop 18 extending from a slide 19. This slide is mounted to work between and beneath the angle irons and the loop 18 thereof is pivotally engaged by one end of a lever 20. This lever is slidably mounted within a swiveled guide 21 supported by a bracket 22 which extends inwardly from one side of the wagon body and the rear end of the lever is pivotally engaged by a rod 23 slidably mounted within another swiveled guide 24 similar in construction to the guide 21. This rod 23 is pivotally connected to the door 2. It is of course to be understood that each of the closures 13 is provided with a track and is connected to the door 2 by means of the parts above described.

All of the parts are so proportioned that when the door 2 is closed the slides 19 assume positions within the rear end portions of the guide tracks 15. When the operator desires to open the rear door 2 and the closures of the meat box he pulls forward on lever 9 a desired distance. This causes rod 8 to pull on lever 6 which, in turn, pushes the door rearwardly and upwardly by means of rod 5. This movement of the door causes it to pull on the two levers 20 through rods 23 and a sliding and swinging movement is thus imparted to the levers, causing the slides 19 to travel within the curved tracks 15 and thus swing the closures 13 upwardly as shown in full lines in Fig. 1. It is of course to be understood that the tracks 15 are so shaped as to permit the necessary movement of the lever 20 without producing undue friction or binding of the parts. To close the door 2 and the covers of the meat box the foregoing operation is merely reversed.

What is claimed is:

1. The combination with a housing, a hinged door at one end thereof, and means

adjacent the other end of the housing for actuating the door; of a receptacle within the housing, a hinged closure therefor, a curved guide track upon the closure, a lever slidably mounted within the housing and movably engaging the track, and means operated by the door for sliding and swinging the lever to shift the closure.

2. The combination with a housing, a door hinged thereto, and means for actuating the door; of a receptacle, a hinged closure thereon, a guide track upon the closure, a slide engaging said track, a lever pivotally and slidably mounted within the housing and connected to the slide, and means operated by the door for actuating the lever to shift the closure.

3. The combination with a housing, a door thereon, and means for actuating the door; of a receptacle, a hinged closure thereon, a curved guide track upon the closure, swiveled guides within the housing, a lever mounted within one of the guides, a slide thereon and movably engaging the track, and a pivoted connection between the lever and the door, said connection being mounted within one of the guides.

4. The combination of a housing, a vertically swinging hinged door thereon, a receptacle within the housing, and a vertically swinging hinged closure for the receptacle, the pivotal axis of the closure being disposed in a plane intersecting the pivotal axis of the door, means for operating the door, and slidable and pivoted means connecting the door and closure for producing simultaneous opening or closing movement thereof.

5. The combination of a housing, a door hinged thereon and mounted to swing vertically, a receptacle within the housing, and a closure hinged thereon and mounted to swing vertically, the pivotal axis of the closure being disposed in a plane intersecting the pivotal axis of the door at right angles thereto, and means connecting the door and closure for producing simultaneous opening or closing thereof.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

CHARLES J. WOLFE.

Witnesses:

GEO. F. GREENAWALT,
W. B. FACKLER.