

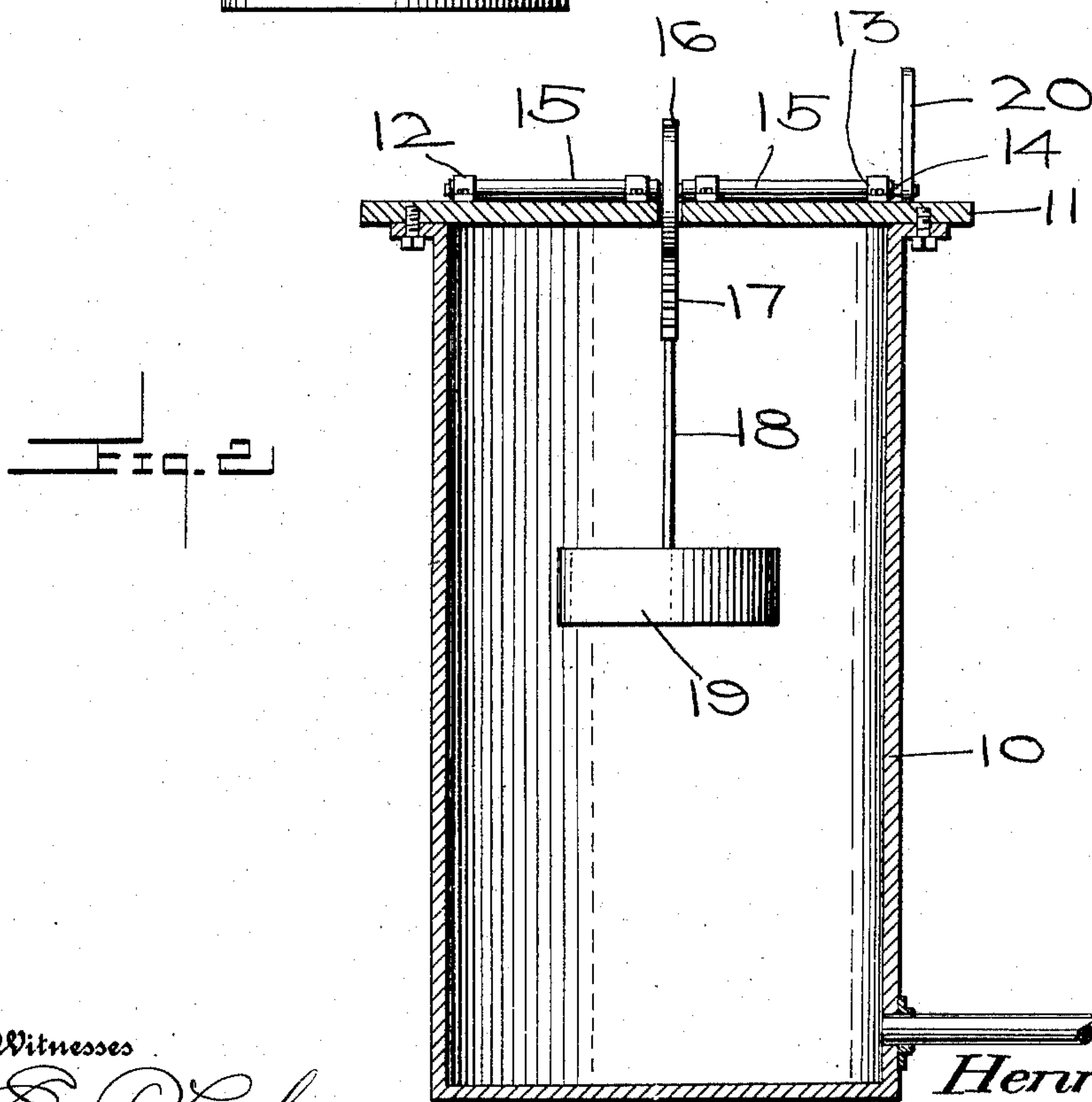
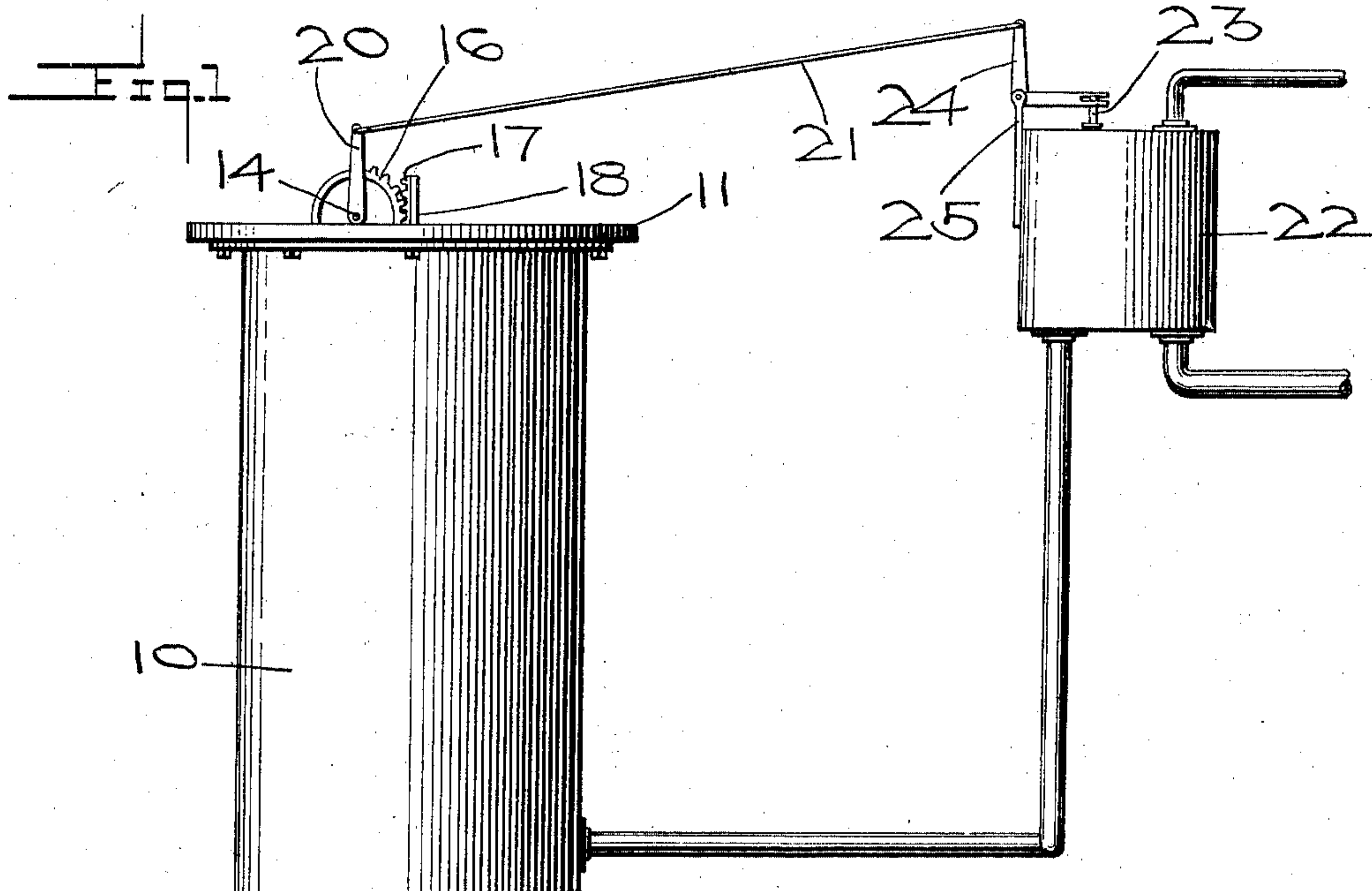
H. MOHR, SR.
FLOAT CUT-OFF.

APPLICATION FILED DEC. 18, 1908.

928,319.

Patented July 20, 1909.

2 SHEETS—SHEET 1.



Inventor

Witnesses

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E. L. Chandler

By

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Attorney

Henry Mohr, Sr.

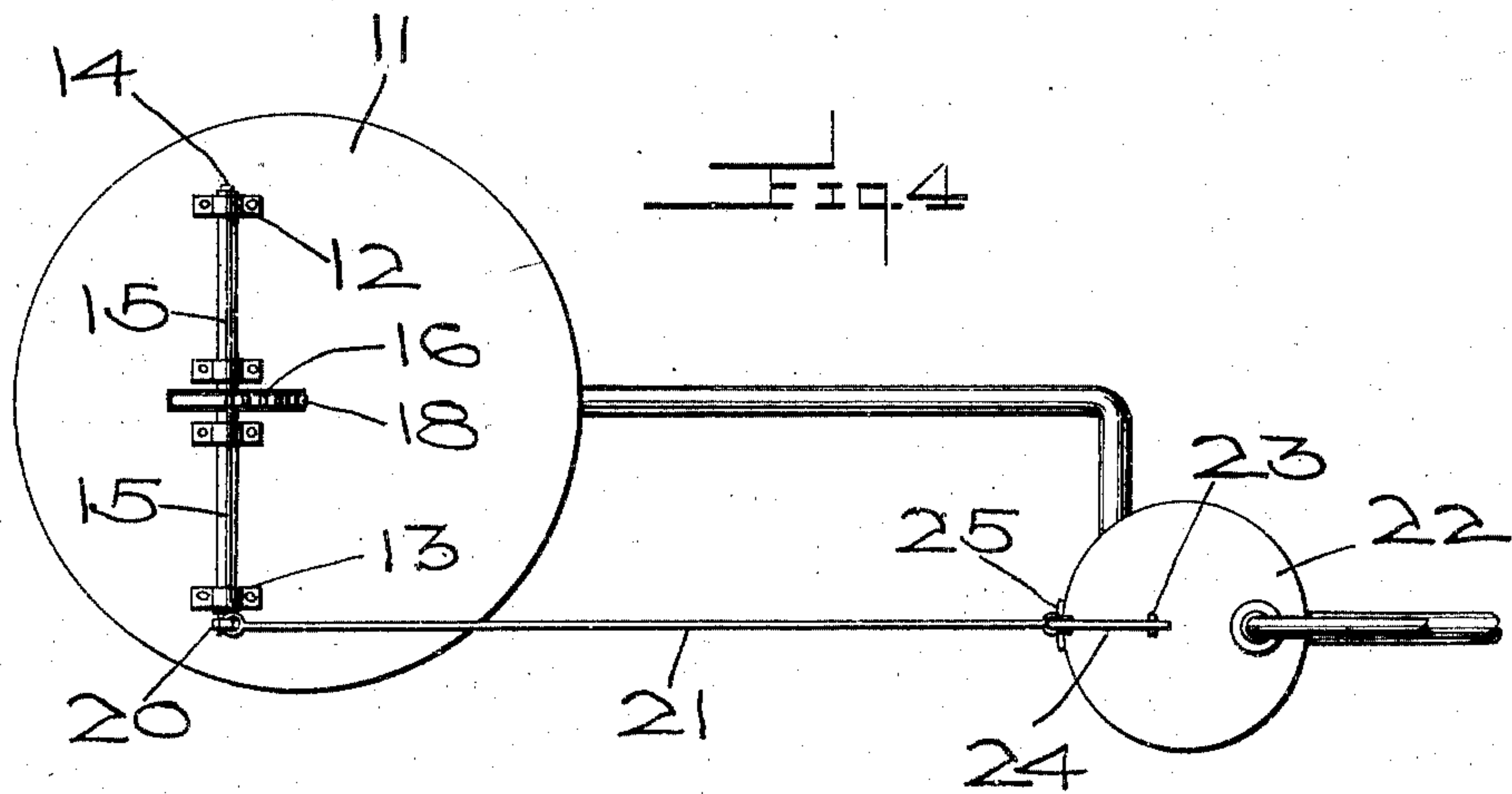
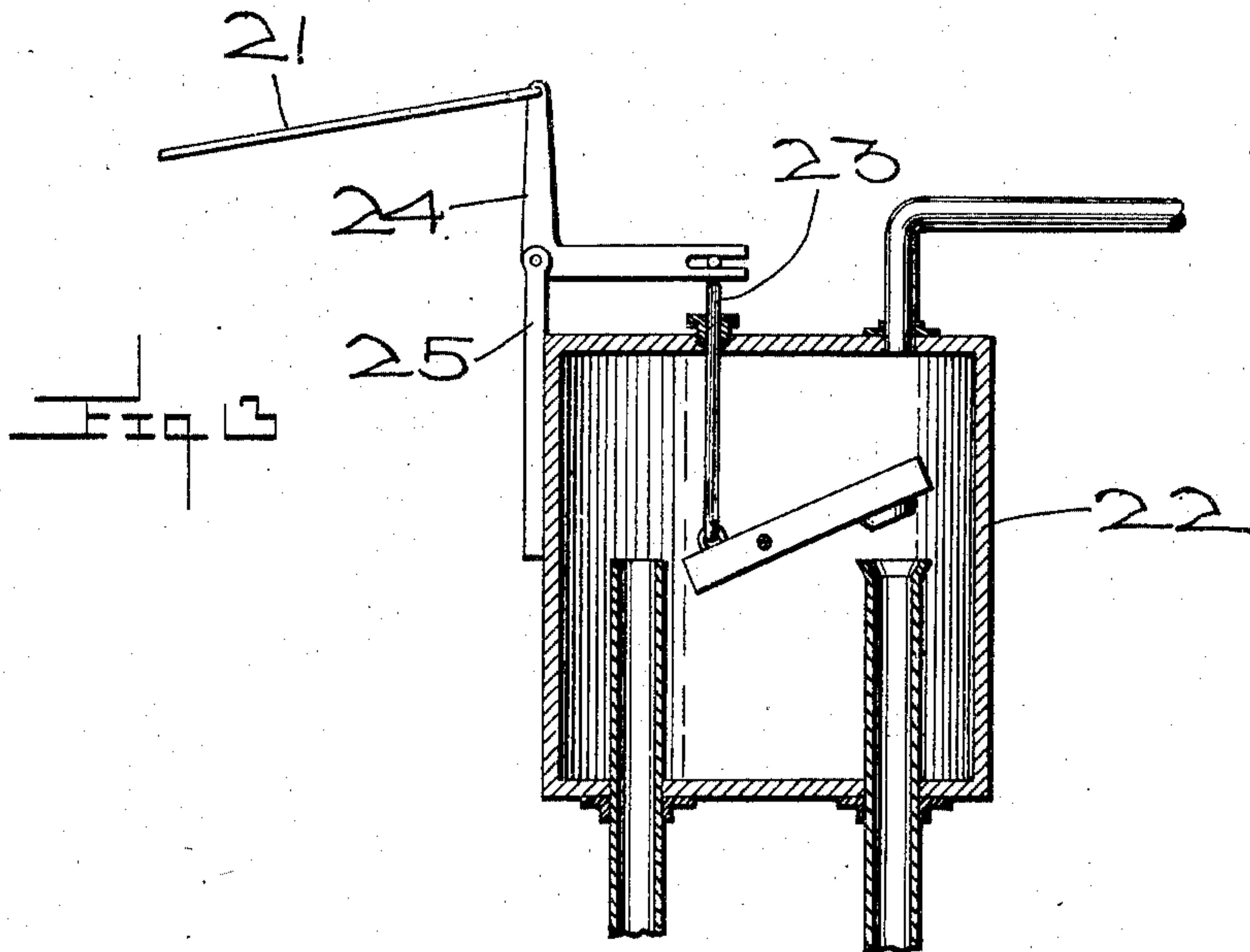
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UNITED STATES PATENT OFFICE.

HENRY MOHR, SR., OF RED BUD, ILLINOIS.

FLOAT CUT-OFF.

No. 928,319.

Specification of Letters Patent.

Patented July 20, 1909.

Application filed December 18, 1908. Serial No. 468,249.

To all whom it may concern:

Be it known that I, HENRY MOHR, Sr., a citizen of the United States, residing at Red Bud, in the county of Randolph and State of Illinois, have invented certain new and useful Improvements in Float Cut-Offs, of which the following is a specification.

This invention relates to cut-offs, and has special reference to a device which automatically cuts off a flow of water by the actuation of a float.

An object of this invention is to provide an arrangement of mechanisms whereby an automatic cut-off which is positioned a distance from a cistern may be actuated by a float which is positioned in the cistern.

Another object of the invention is the provision of means by which the object of this invention will be carried out which is simple in construction and comprises but few working parts increasing the efficiency of apparatus of this nature.

The invention has for a further object a device of this nature which can be readily applied to cisterns and cut-offs of ordinary construction which are now in present operation.

Other objects and advantages will be apparent from the following description and it will be understood that changes in the specific structure shown and described may be made within the scope of the claims without departing from the spirit of the invention.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is a side elevation of the complete device, Fig. 2 is a detailed and enlarged vertical section of the cistern and attachments thereto, Fig. 3 is a detailed and enlarged vertical section of the cut-off and connections thereto which may be employed in connection with this apparatus, Fig. 4 is a top plan view of Fig. 1.

Referring to the drawings, 10 designates a cistern over the upper extremity of which is mounted a platform 11 which is provided upon its upper face with journals 12 and 13 for the purpose of supporting a transverse shaft 14. The shaft 14 is inclosed in a cylindrical casing 15 which extends practically the entire length thereof and serves as a bearing for positioning a gear 16 which is disposed upon the inner extremity of the shaft 14. The gear 16 is positioned directly over the central portion of the cistern 10 and

extends through a recess formed in the platform 11 where it is engaged against a rack 17 positioned upon one face of a vertically disposed rod 18 mounted in the upper extremity of the cistern 10 and adapted to reciprocate in the cistern through the platform 11. The lower extremity of the rod 18 is connected to a float 19 preferably constructed of cork or other like substance which, owing to its buoyancy actuates the rod 18. The shaft 14 is provided at its opposite extremity with a crank arm 20 which pivotally supports one extremity of a connecting rod 21. Positioned at a distance from the cistern 10 is an automatic cut-off 22 of common construction which is actuated by a rod 23 extended upwardly therefrom and pivotally engaged at one extremity of a lever 24 which is fulcrumed upon a standard 25 and which extends outwardly from the cut-off 22 where it is secured to the opposite extremity of the connecting rod 21.

In operation, as the water level rises in the cistern 10 the float 19 is carried upwardly and causes the rod 18 to reciprocate in an upward direction and carry the rack 17 therewith. As the rack 17 is meshed with the gear 16 the shaft 14 is caused to rotate and swing the arm 20 to actuate the connecting rod 21. This action causes the lever 24 to swing downwardly and to raise the rod 23 to bring the cut-off 22 into operation.

What is claimed is:—

1. In a device of the class described the combination with a cistern and a cut-off, of a float in said cistern, a rod mounted on said float, a rack disposed along one edge of said rod, a shaft transversely mounted across said cistern, a gear disposed upon one extremity of said shaft and meshed with said rack, a crank arm on said shaft, a standard on said cut-off, a lever disposed in the upper extremity of said standard, a rod connected between said cut-off and one extremity of said lever, and a connecting rod disposed between the opposite extremity of said lever and said crank arm.

2. In a device of the character described the combination with a cistern and a cut-off, of a platform disposed above said cistern, journal bearings mounted on said platform, a shaft mounted in said bearings, a casing disposed about said shaft, a gear mounted on one extremity of said shaft, a rod vertically disposed through said platform hav-

ing a rack formed in one edge thereof for en-
gagement with said gear, a float positioned
upon the lower extremity of said rod, a crank
arm mounted upon the opposite extremity
5 of said shaft and a connecting rod extended
from said crank arm for actuating said cut-
off.

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

HENRY MOHR, SEN.

Witnesses:

HEDWIG HILL,
H. M. HILL.