

(No Model.)

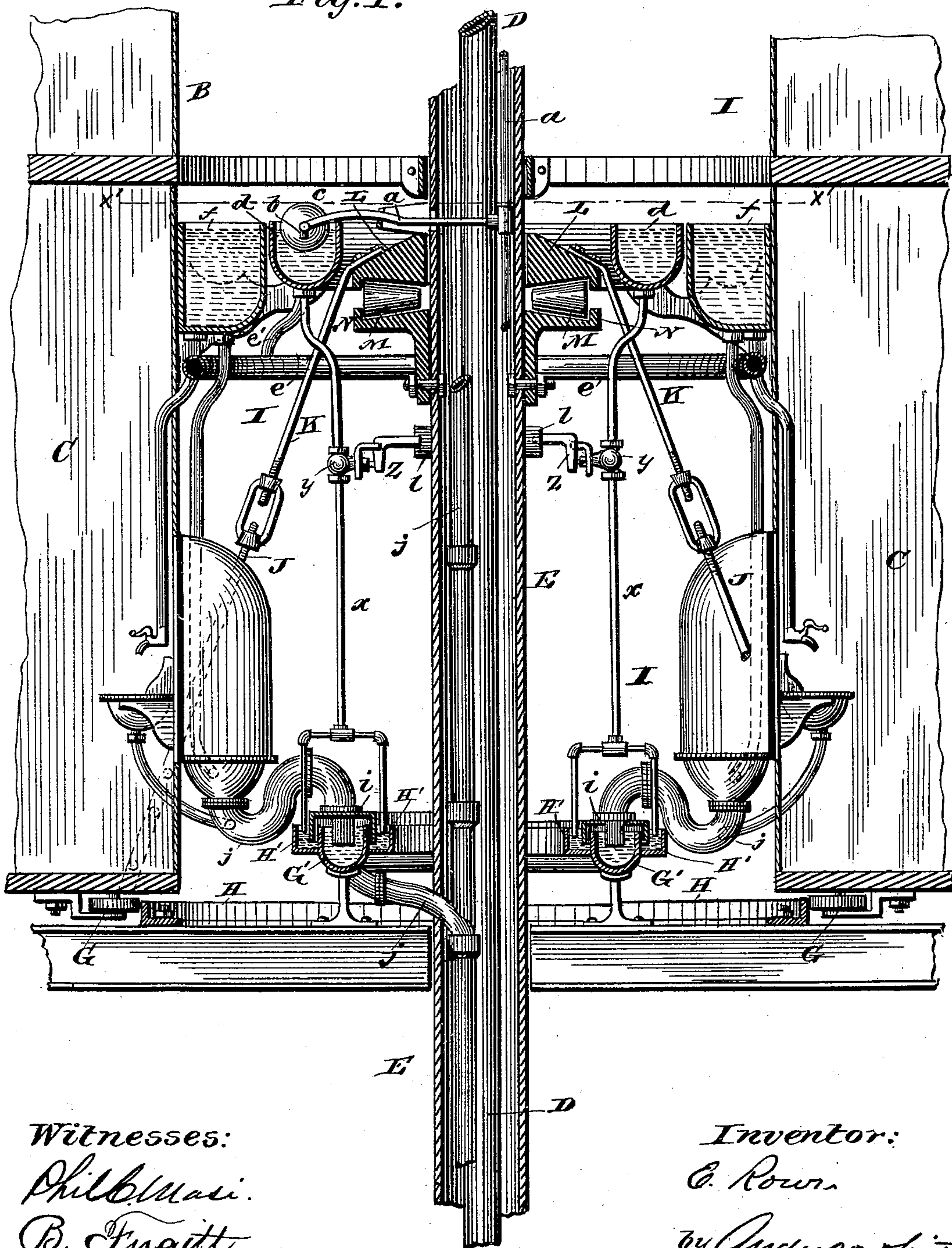
3 Sheets—Sheet 1.

E. ROWE.
REVOLVING JAIL.

No. 407,877.

Patented July 30, 1889.

Fig. 1.



Witnesses:
Phil B. Masi.
B. Fugitt

Inventor:
E. Rowe.
by Anderson & Smith
Attorneys.

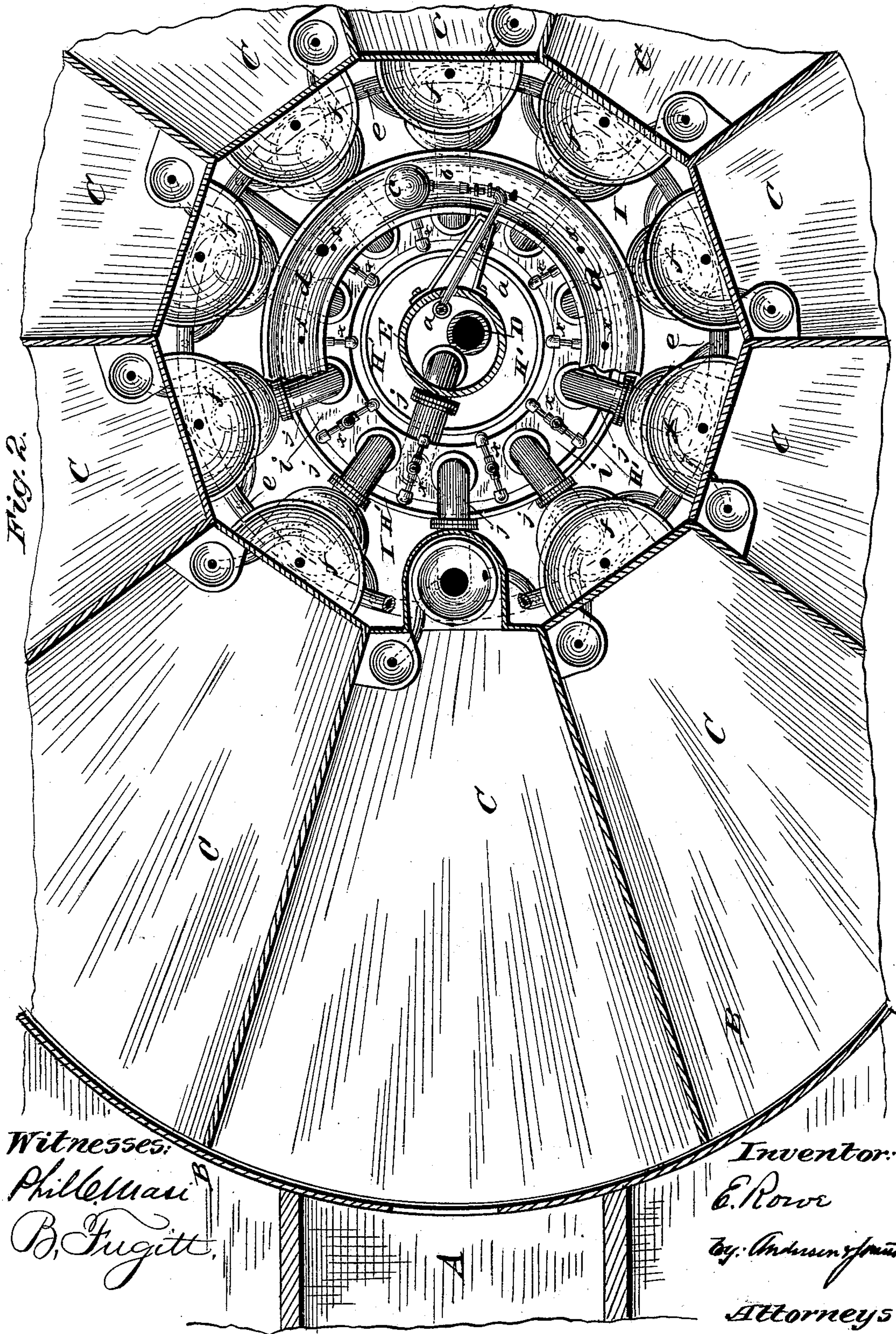
(No Model.)

3 Sheets—Sheet 2.

E. ROWE.
REVOLVING JAIL.

No. 407,877.

Patented July 30, 1889.



(No Model.)

3 Sheets—Sheet 3.

E. ROWE.
REVOLVING JAIL.

No. 407,877.

Patented July 30, 1889.

Fig. 3.

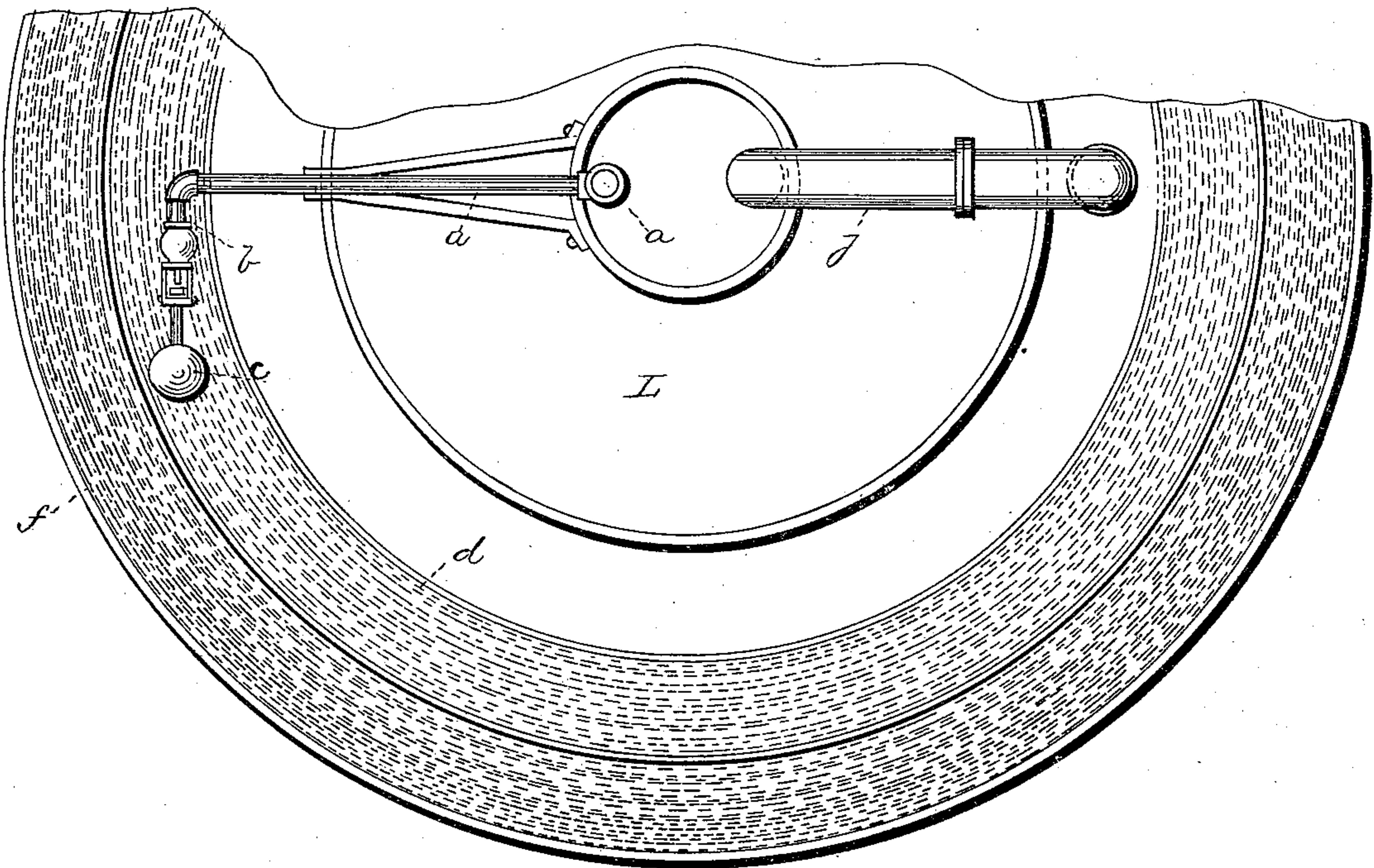
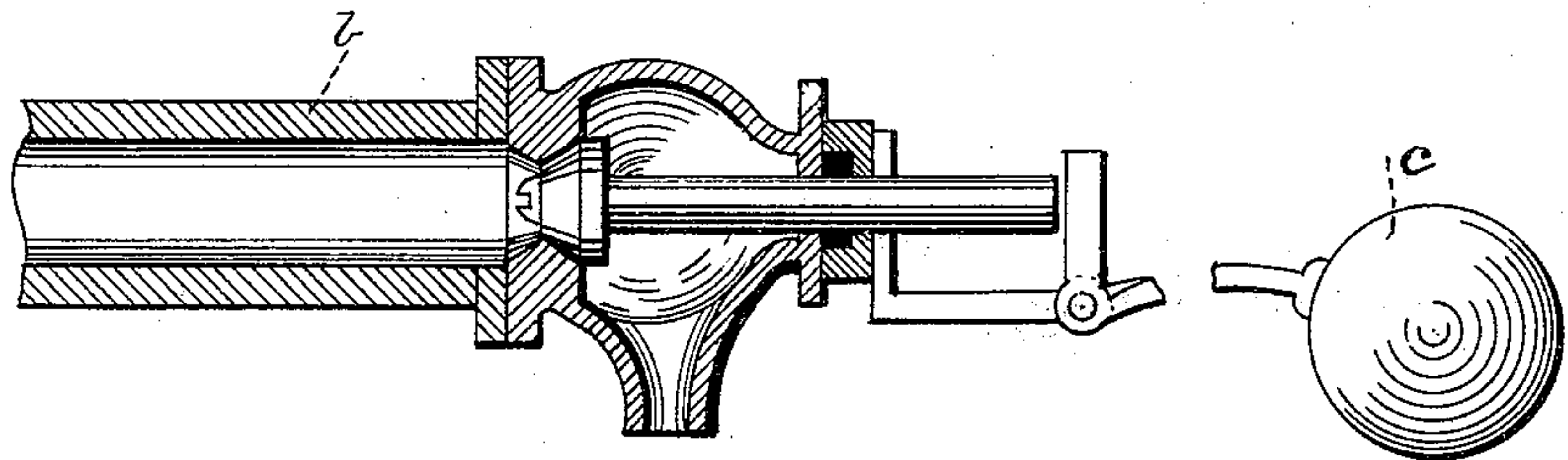


Fig. 4.



WITNESSES

W. B. Harris
Phil. Masi.

INVENTOR

Edward Rowe,
by Audensmuth
his Attorneys

UNITED STATES PATENT OFFICE.

EDWARD ROWE, OF INDIANA, PENNSYLVANIA.

REVOLVING JAIL.

SPECIFICATION forming part of Letters Patent No. 407,877, dated July 30, 1889.

Application filed November 2, 1886. Serial No. 217,840½. (No model.)

To all whom it may concern:

Be it known that I, EDWARD ROWE, a citizen of the United States, and a resident of Indiana, in the county of Indiana and State of Pennsylvania, have invented certain new and useful Improvements in Revolving Jails; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of my invention in vertical longitudinal section. Fig. 2 is a horizontal sectional view of the same. Fig. 3 represents a transverse section on the line *xx* of Fig. 1. Fig. 4 is a detail sectional view of the float-ball and connected parts.

My invention relates to revolving jails and other revolving or rotary buildings; and it consists in the construction and novel combination of parts, as hereinafter described, and pointed out in the claims.

The objects of my invention are to introduce water into revolving or rotary jails and other revolving structures, and to remove the soil from water-closets in the said structures in such a manner that a perfect ventilation of the water-closets and the soil-pipes connected therewith may be had, in order to improve the sanitary condition of such rotary jail or other structure.

Referring by letter to the accompanying drawings, A designates a jail-building, which may be any required numbers of stories in height. B designates the circular cell-structure, the tiers of cells in which preferably correspond to the number of stories in the jail-building.

I provide ten or a lesser number of cells C in each tier.

D is the smoke-stack, which is located at the center of the cell-structure and extends from the furnace below the cell-structure up and out through the roof of the building.

E designates the ventilating-shaft, which surrounds the smoke-stack D and extends from the furnace-room beneath the cell-structure up through the roof of the building.

The cell-structure is supported by the conical rollers M, and is provided below with the guide-rollers G, which move on the track or rail H.

J J are rods bolted at their lower ends to the revolving cell-structure and connected at the upper ends, which are tapped, by turn-buckles to the rods K, which are secured at their upper ends to the flanged annular bearing-cap L, encircling the ventilating-shaft and resting on the conical rollers M, which are supported by the flanged track N, securely bolted to the ventilator-shaft.

a is a small iron water-pipe which is run either up or down the central cast-iron column E and conducts the water to a valve *b*, which is regulated by a float-ball *c* and empties the water into the annular service-tank *d*. This tank *d* is attached to the jail and moves around when the latter is rotated; but the float-ball *c*, valve *b*, and pipe *a* remain stationary. From this tank *d* water is conveyed by the pipe *e'* to the service-pipe *e*, which extends entirely around the well-hole and is connected to the bottoms of the flushing-tanks *f* at every cell. It may also be used in any other kind of a closet using no flushing-tank.

When the closets are flushed, the soil runs into the sealed annular pan G', the lower part of which is stationary and is practically the same as that in general use, with the exception, however, that the pan has a channel H' cut around each side, which is kept filled with water automatically by means of the pipes *x* descending from the tank *d* and branched at its lower end to straddle the annular pan G'.

y y are valves in the pipes *x x*, each provided with a lever *z*, which is operated by the cam *l* on the column E as the cell-structure revolves around the said column, so as to open the valve and allow water to flow into the channels H'. All excess of water in the channel H' runs over the inside wall of the channel H'. The cap *i*, which revolves with the jail, fits or dips into the water in the channel H' and makes a perfect seal, and, although it revolves, will prevent any air or smell from passing the soil-pipe *j*, as the air and odor pass into the iron column and are carried to the roof and escape above it.

The cells are rotated by steam-power or water-power, as may be deemed most desirable.

ble, and the power is connected thereto in any suitable manner.

Having described this invention, what I claim, and desire to secure by Letters Patent, 5 is—

1. The combination, with a stationary building or structure provided with a central ventilating-shaft, an incased smoke-flue and soil-pipes located in said ventilating-shaft, of the 10 revolving cells, the flushing-tank, a service-tank having a valve-and-ball float, the down pipes, closet-basins having flushing-pipes, the water-sealed pans, and the connecting soil-pipes leading to the incased soil-pipes, substantially as specified. 15

2. The combination, with the building provided with the revolving cells, basins, and the

incased soil-pipe, of the annular water-sealed pans, the caps *i*, the flushing-pipes connected to the closet-basins, the annular tank *d*, the 20 service pipe and float, the branched pipe provided with a cock and lever, and the cam secured to the ventilator-pipe, substantially as specified.

3. The combination, with the stationary annular pan having a water-channel cast thereon, of a rotary cap for sealing the soil-pipe, substantially as specified. 25

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

EDWARD ROWE.

Witnesses:

JOS. W. CLEMENTS,
PHIL M. SUTTON.