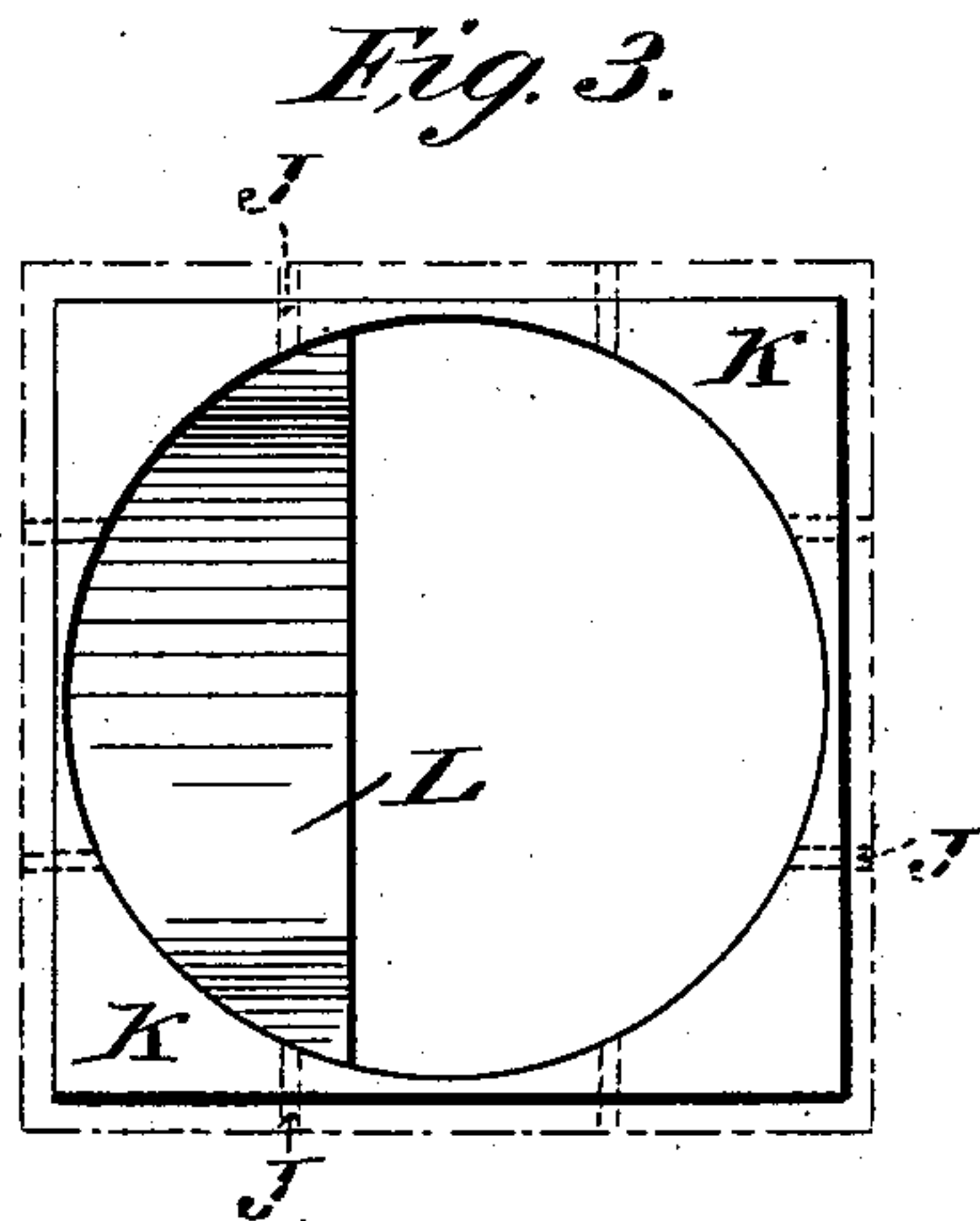
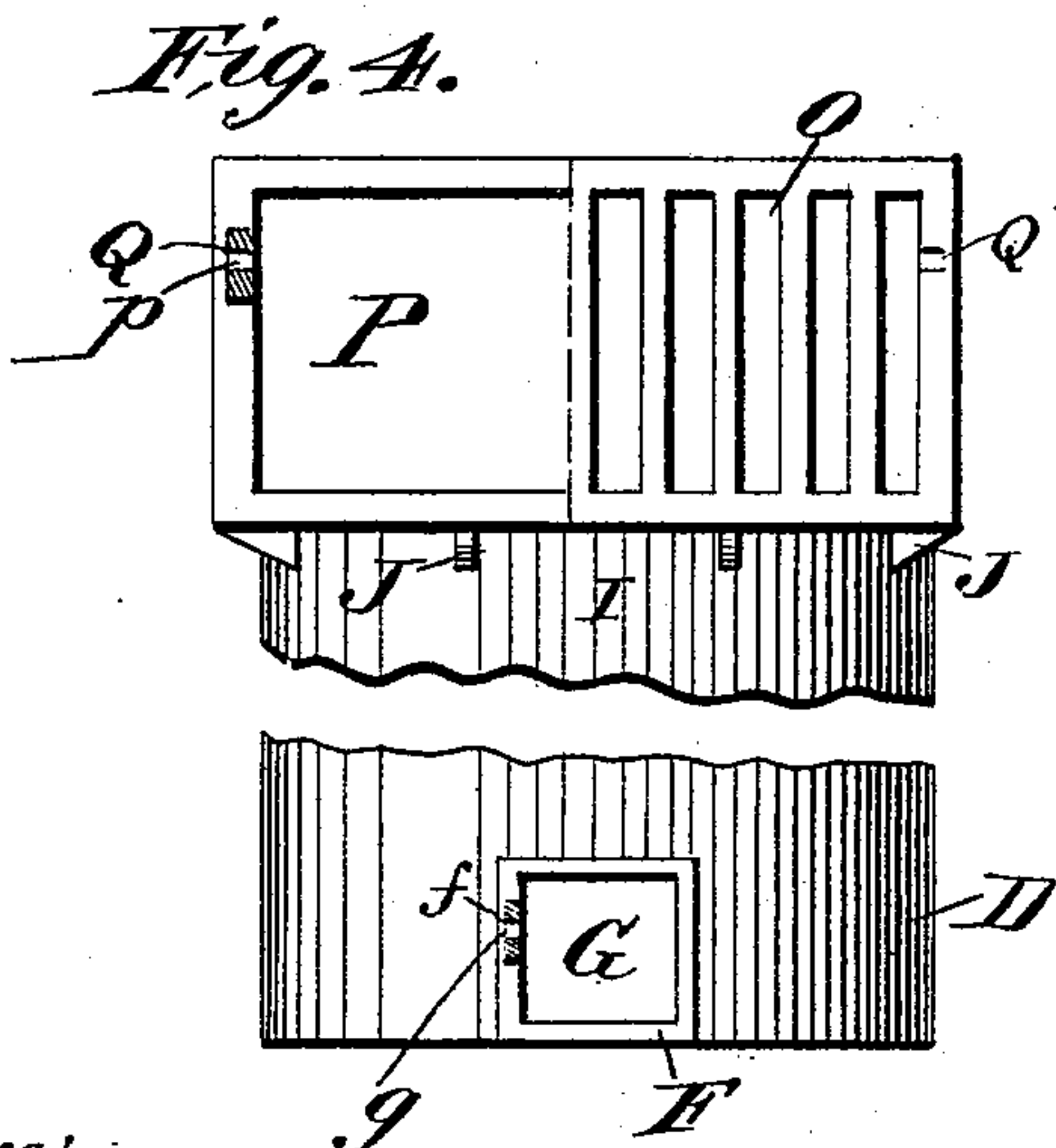
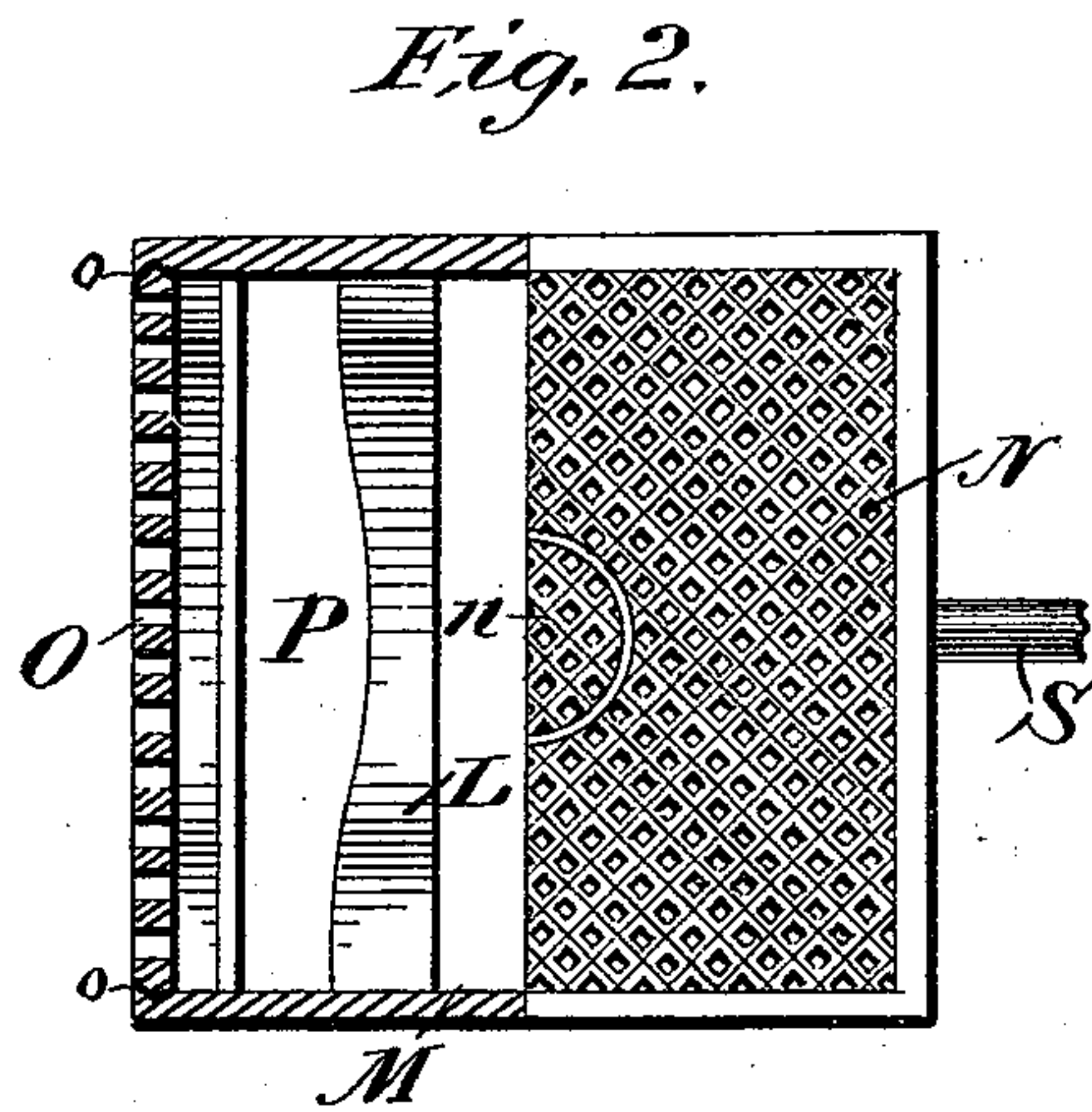
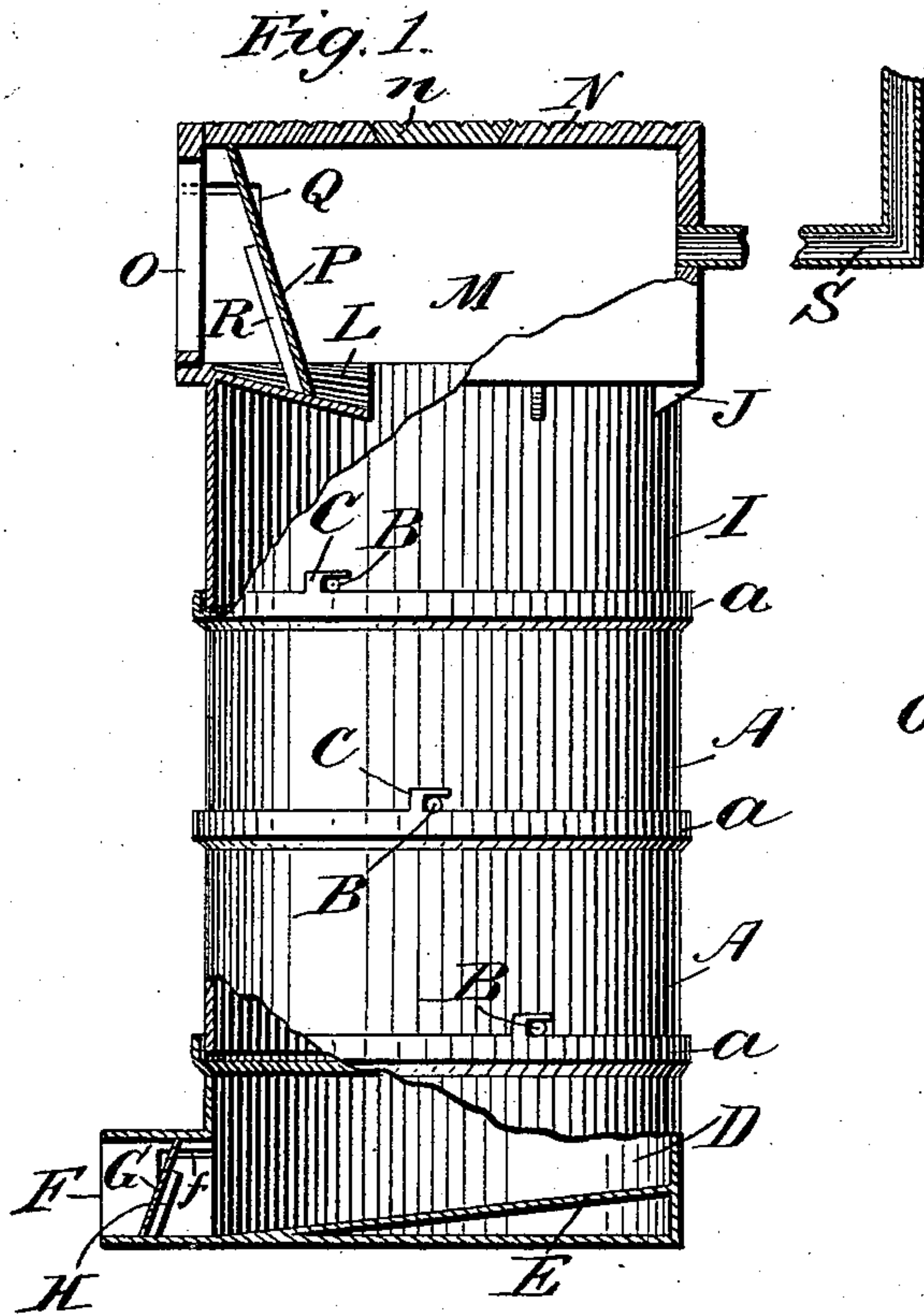


(No Model.)

J. COLAS.
DRAINING WELL.

No. 539,417.

Patented May 21, 1895.



Witnesses.

Benjamin M.
Daniel John Brighton

Inventor.
Jules Colas.
per A. Lévêque,
Attorney.

UNITED STATES PATENT OFFICE.

JULES COLAS, OF MONTREAL, CANADA.

DRAINING-WELL.

SPECIFICATION forming part of Letters Patent No. 539,417, dated May 21, 1895.

Application filed October 11, 1894. Serial No. 525,573. (No model.) Patented in Canada September 19, 1894, No. 47,069.

To all whom it may concern:

Be it known that I, JULES COLAS, molder, a citizen of Canada, residing in the city of Montreal, in the Province of Quebec, Canada, have invented new and useful Improvements in Draining-Wells, (for which I have obtained a patent in Canada, No. 47,069, bearing date September 19, 1894,) of which the following is a specification.

The objects of my invention are to provide in a draining well of superposed sections, the top and bottom sections with removable doors having pintles received in L shaped grooves formed in the sides of said sections, as hereinafter described and pointed out in the claim. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side view of my invention, shown at both ends of a draining-shaft, where the same is represented in partial sections. Fig. 2 is a view of the cover partly in section and partly in elevation. Fig. 3 is a view of the top section. Fig. 4 is a partial front view.

The well may consist of an ordinary brick shaft or of a number of cylindrical sections —A— provided with sockets —a— for the reception of the superimposed section or any other construction which will make a shaft. Pins —B— are provided around the lower edge of each section adapted to fit and be held by the lugs —C— on the sockets —a—.

The bottom section —D— has an inclined bottom —E— falling toward the tube or outlet —F—, which is connected with the main sewer, so that no water which may become stagnant is left in the well. In the tube —F— is pivoted a door —G— opened by the pressure of the water from the inside of the well but remaining closed when no water is passing through it. This door —G— is journaled by the pintles —g— in the L-shaped slots —f—. Stops —H— are provided for the door to close against. It will be seen that the slots —f— are open on the inside of the well so that the door —G— may easily be taken out whenever it is necessary.

The top section —I— is provided with brackets —J—, and flanges or corners —K— are formed on the top over which the cover

fits. Resting on the brackets —J—, a concave segmental plate or spout —L— conducts the water from the inlet, and lets it fall clear of the sides of the well.

The cover —M— is rectangular in shape. The top —N— which is on a level with the top of the sidewalk is roughened to give a firm foothold and is provided with a manhole —n—. The inlet is closed by a grate O— sliding in grooves —o— so as to be easily removed when required. A door —P— is hung in L-shaped grooves —Q— by means of the pintles —p—. The bottom of this door is curved to fit the concave spout —L— and will only open inward by pressure of water from the gully. Stops —R— are provided against which the door rests when closed. This door cannot be opened from the inside by pressure of gas. It may be removed by first taking out the grate —O. At the back of the cover —M— is a ventilating pipe —S— passing under the sidewalk and up the side of the adjacent buildings in some concealed position, to such an elevation where what gas may have escaped through the door —G— may be safely liberated.

I make no claim for the peculiar construction of sections —A— or of any other of which the body of the shaft or well is composed, for I admit that those sections or rings have long been in use for different objects, neither do I lay any claim to the peculiar construction of the cover, —M— and manhole —n— which, also, have been long in use before my present invention; but

What I claim as my invention, and desire to secure by Letters Patent, is—

In a draining well consisting of superposed sections, the top section thereof having a spout L extended over said well and in one side, a removable grate O, the sides of said top section being provided with L shaped grooves Q, in combination with the removable door P having pintles received in said grooves substantially as described.

Montreal, October 6, 1894.

JULES COLAS.

In presence of—

M. ZEAUJEAN,
DANIEL JOHN CRIGHTON.