

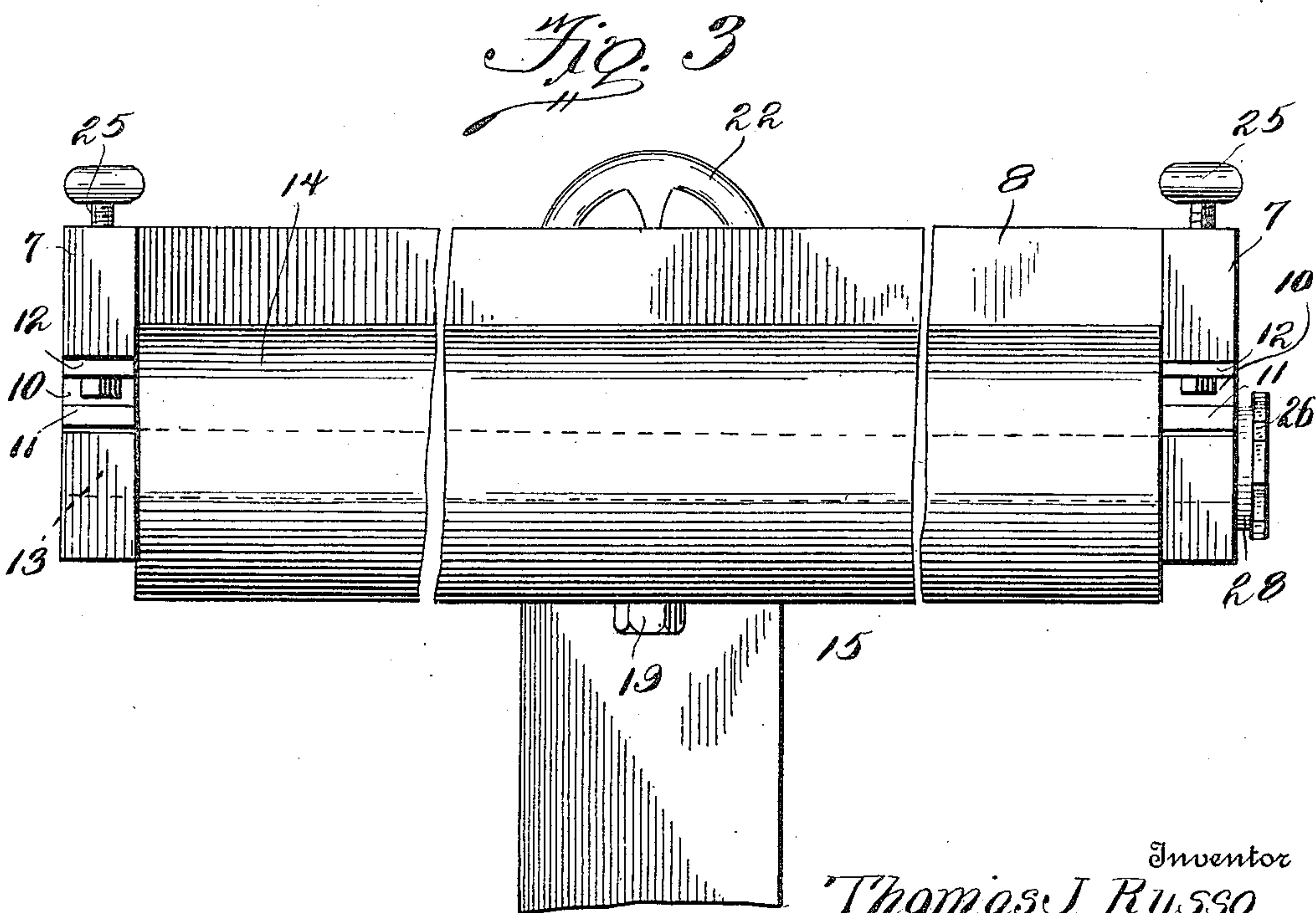
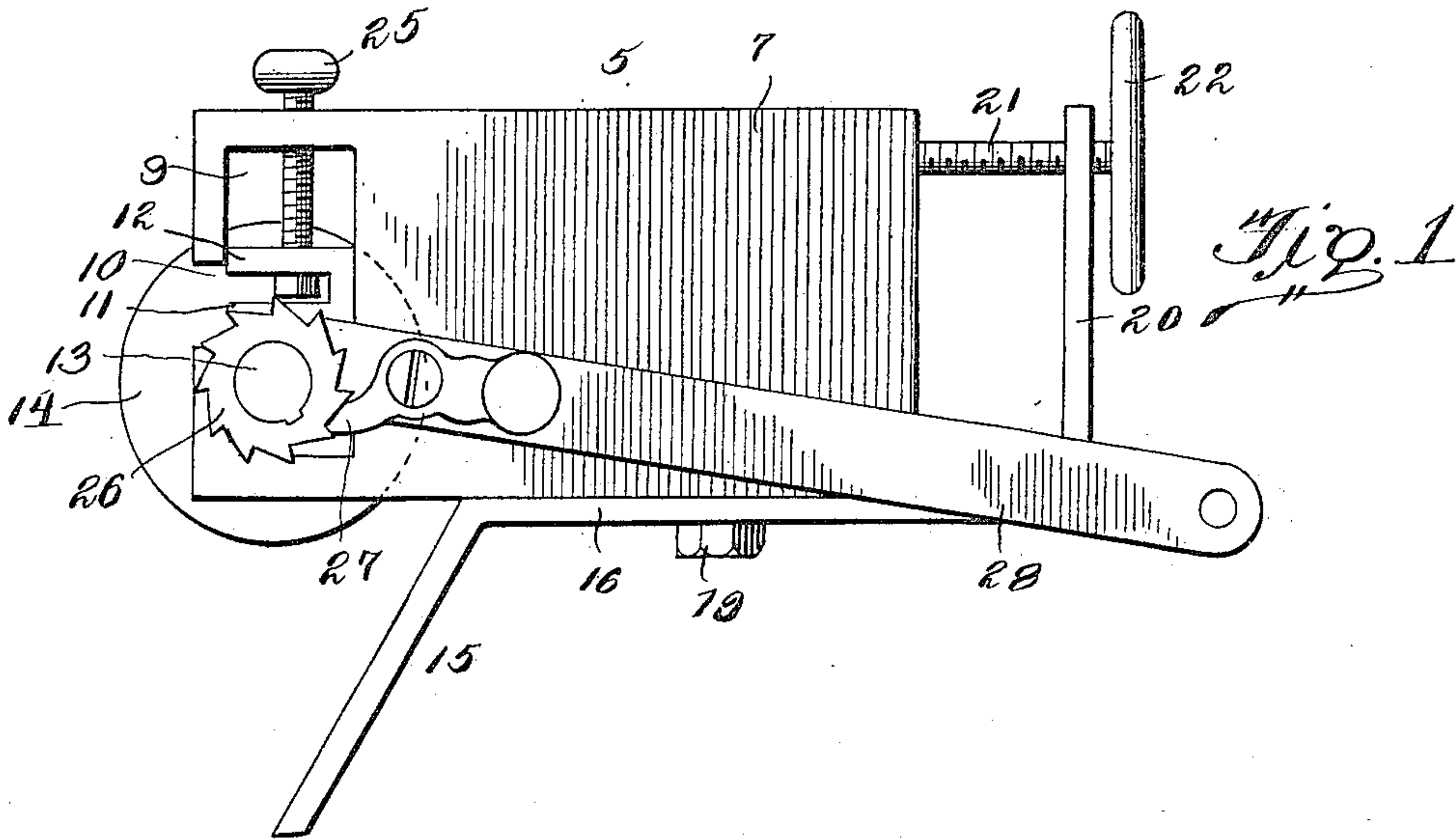
T. J. RUSSO.
INK FOUNTAIN.

APPLICATION FILED NOV. 22, 1910.

994,035.

Patented May 30, 1911.

2 SHEETS—SHEET 1.



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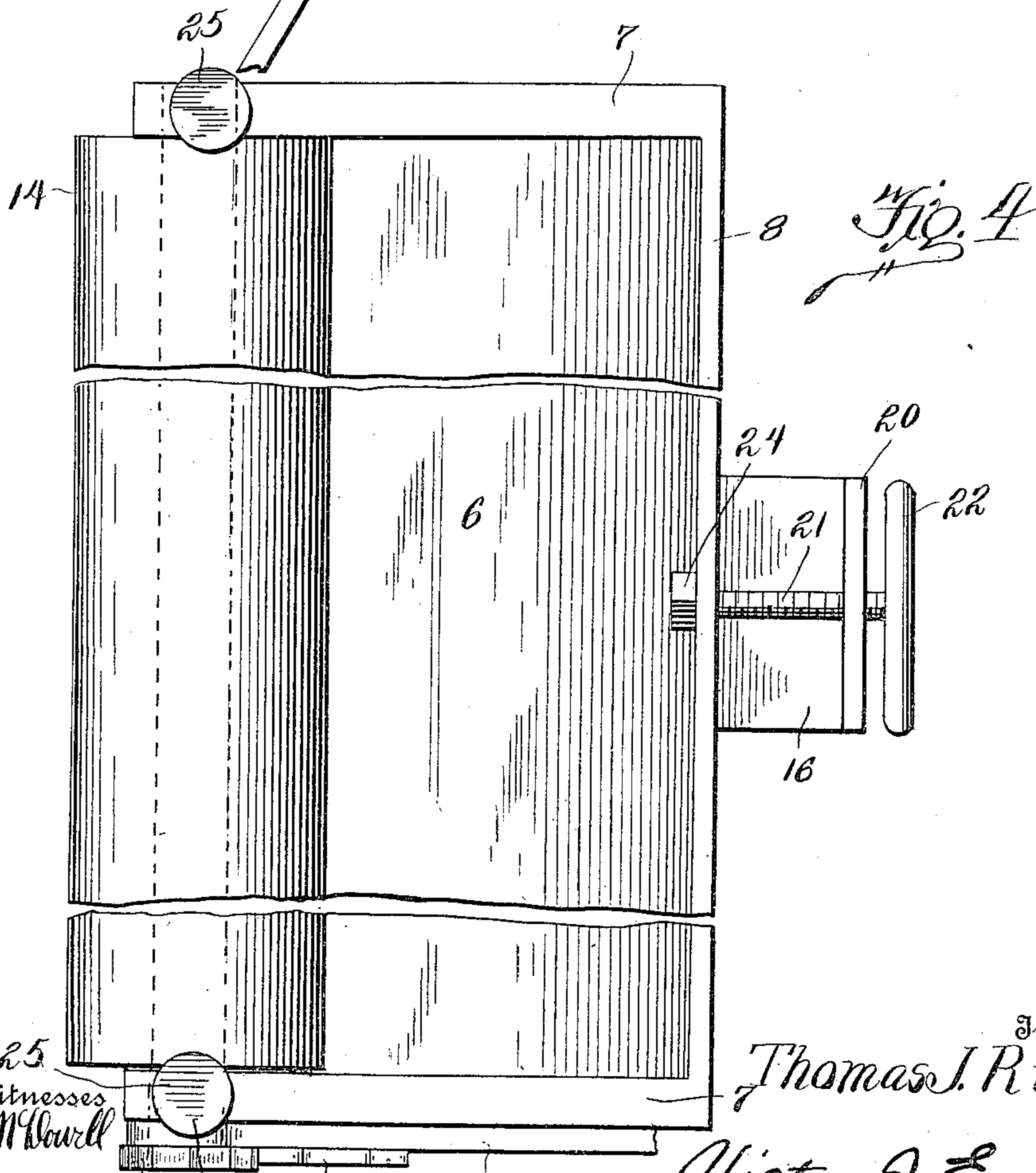
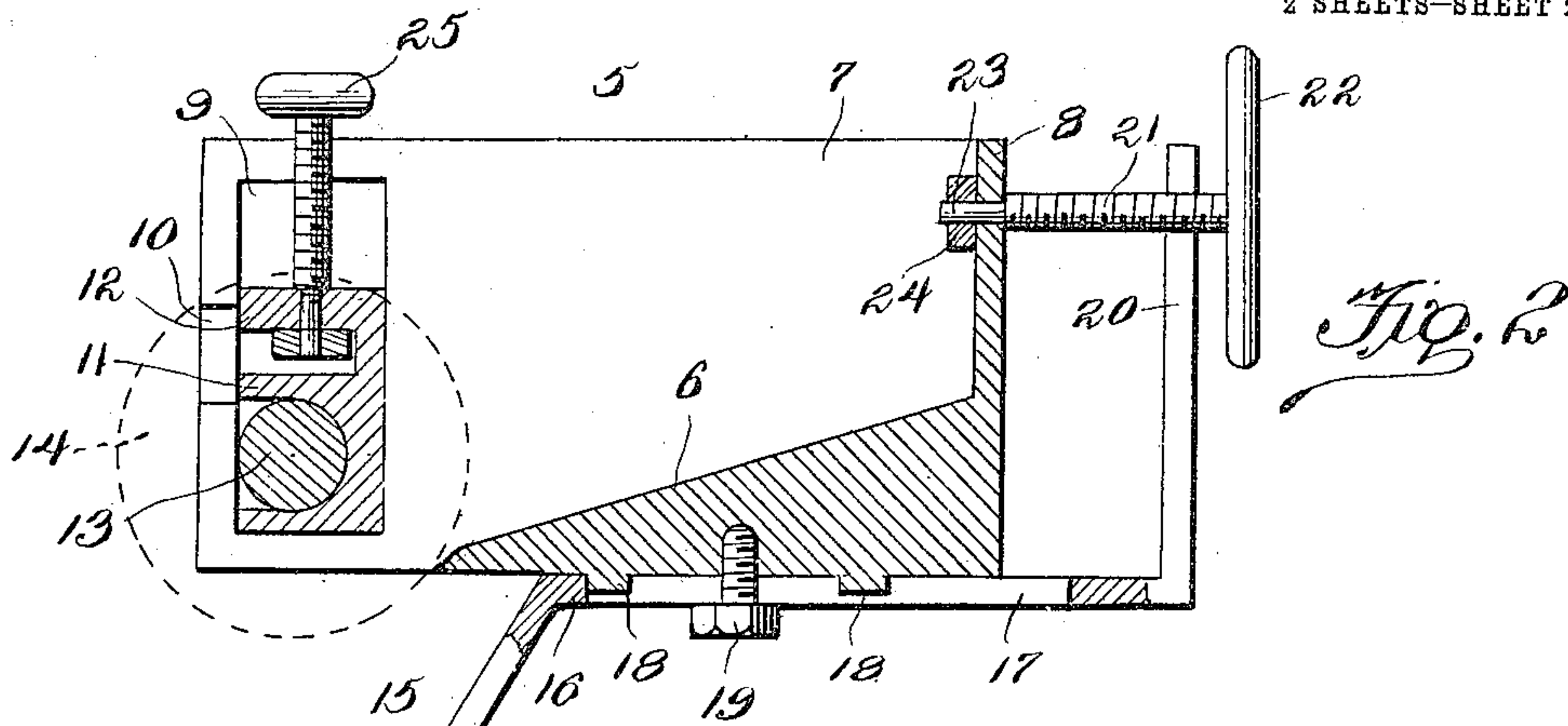
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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

THOMAS J. RUSSO, OF TRENTON, NEW JERSEY.

INK-FOUNTAIN.

994,035.

Specification of Letters Patent.

Patented May 30, 1911.

Application filed November 22, 1910. Serial No. 593,716.

To all whom it may concern:

Be it known that I, THOMAS J. RUSSO, a citizen of the United States, residing at Trenton, in the county of Mercer and State of New Jersey, have invented new and useful Improvements in Ink-Fountains, of which the following is a specification.

The invention relates to an ink fountain for use with printing presses.

10 The primary object of the invention is the provision of a device of this character in which the flow of ink may be regulated and which can be readily cleaned, the ink feed roller being readily and easily re-
15 moved from the fountain.

Another object of the invention is the provision of an ink fountain which may be readily and quickly adjusted toward and away from the distributing rollers of a
20 printing press while the latter is in operation, thus obviating the necessity of stopping such press for this purpose.

A further object of the invention is the provision of an ink fountain which is simple of construction, thoroughly reliable and efficient in operation and inexpensive in
25 manufacture.

With these and other objects in view, the invention consists in the construction, combination and arrangement of parts as will be hereinafter more fully described, illustrated in the accompanying drawing and pointed out in the claims hereunto appended.

35 In the drawing:—Figure 1 is a side view of an ink fountain constructed in accordance with the invention. Fig. 2 is a vertical longitudinal sectional view thereof. Fig. 3 is a front elevation. Fig. 4 is a top
40 plan view.

Similar reference characters indicate corresponding parts throughout the several views in the drawing.

Referring to the drawing by numerals, 5
45 designates the body of an ink fountain including an inclined bottom 6, vertical side walls 7 and a vertical rear wall 8, the side walls 7 near their front edges being provided with vertical elongated slots 9, the
50 same being immediately intersected through the front edges of the said side walls by means of entrance slots 10 and within the vertical slots 9 are arranged slidable bearings 11 formed with bearing notches 12
55 opening through their front edges in which are rotatably fitted the ends of a support-

ing shaft or axle 13 carrying an ink distributing roller 14, the latter being positioned between the vertical side walls 7 of the fountain for a purpose as will be herein-
60 after more fully described.

Supporting the body 5 of the fountain is a bracket 15 having a horizontally disposed extension 16 containing a guide slot 17 in which extend depending spaced guide lugs
65 18 integral with the bottom 6 of the body 5 of the fountain. Passed through the slot 17 and engaging the bottom 6 of the fountain is an adjustable bolt member 19, the latter being designed to prevent the separation of the body 5 from the extension 16 and
70 to sustain the guide lugs 18 engaged in the said slot 17 when the said fountain is being adjusted for a purpose which will be more fully hereinafter described.

Integral with and rising from the free end of the extension 16 is an ear 20 in which is threaded an adjusting stem 21 having
75 fixed at one end a turning wheel 22 and its opposite end being reduced as at 23 and engaged in a suitable opening formed in the rear wall 8 of the body 5 of the fountain. Detachably engaged with the reduced end
80 23 of the stem 21 is a nut 24 which connects the said stem with the body 5 and permits it to turn in the ear whereby the fountain may be adjusted longitudinally of the extension 16 supporting the same.

Threaded in the vertical side walls 7 of the body 5 and intersecting the vertical
90 slots 9 are winged adjusting screws 25, the same being suitably loosely connected with the upper ends of the slidable bearings 11 so that on the turning of the screws 25 the said bearings 11 may be adjusted in the
95 vertical slots 9 for regulating the feeding of ink from the fountain to the feed roller. Also by these screws 25 the said bearings 11 may be shifted in the slot 9 so that the notches 12 in the said bearing will register
100 with the entrance slots 10 in the side walls 7 of the fountain whereby the ends of the axle 13 may be readily and quickly detached from the bearings 11 and removed from the fountain through the said entrance slots 10
105 for the cleaning of the feed roller.

The shaft or axle 13 has fixed to one of its ends a ratchet wheel 26 with the teeth of which the toe of a weighted pawl 27 pivoted to a radial arm or lever 28 engages, as
110 shown. The arm or lever 28 is mounted loosely at one end upon the shaft or axle 13

and is connected at its opposite end by a suitable link or connecting rod (not shown), to any movable part of the printing press and this arm or lever through the medium of the ratchet wheel is adapted to impart an intermittent rotary movement to the feed roller 14 for conveying a given portion of the ink adhering thereto outside of the fountain.

It is clearly obvious that the body 5 may be adjusted on the bracket toward and away from the distributing rollers of a printing press to the proper distribution of the ink thereto from the fountain. It is needless to say in what manner the fountain is filled, as it will be clear that the same may be filled from its open top.

From the foregoing, it is thought that the construction and operation of the invention will be clearly apparent and, therefore, a more extended explanation has been omitted.

What is claimed, is:—

1. The combination with a bracket having a slotted extension and an upright at right angles thereto, of an ink fountain comprising a body superimposed upon said extension and having a forwardly inclined bottom, lugs projecting from said bottom and slidably engaged in the slot in said extension, the said body being open at its front, and provided with vertical guide slots in its side walls, said body being further provided with branch slots opening through the front edges of the side walls and communicating with the vertical guide slots, bearings slidably fitted in said vertical guide slots and having notches in their front edges, a distributing roller having an axle

journaled in a pair of notches in said bearing blocks, means carried by the body and engaged with the remaining notches in the bearing blocks for adjusting the said bearing blocks and an adjusting screw threaded in the said upright and engaged with the body for moving the latter on the extension therein either in forward or backward directions.

2. The combination with a bracket having a slotted extension and an upright at right angles thereto, of an ink fountain comprising a body superimposed upon said extension and having a forwardly inclined bottom, lugs projecting from said bottom and slidably engaged in the slot in said extension, the said body being opened at its front, and provided with vertical guide slots in its side walls said body being further provided with branch slots opening through the front edges of the side walls and connecting with the vertical guide slots, bearings slidably fitted in said vertical guide slots and having notches in their front edges, a distributing roller having an axle journaled in the bar of the notches in said bearing blocks for adjusting the said bearing blocks and the adjusting screw threaded in the said upright and engaged with the body for moving the latter on an extension therein in forward or backward direction, and means connected with the axle of the distributing roller for intimately rotating the same.

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

THOMAS J. RUSSO.

Witnesses:

MILO ALVINE,
MATTEO SOLIMANDO.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."