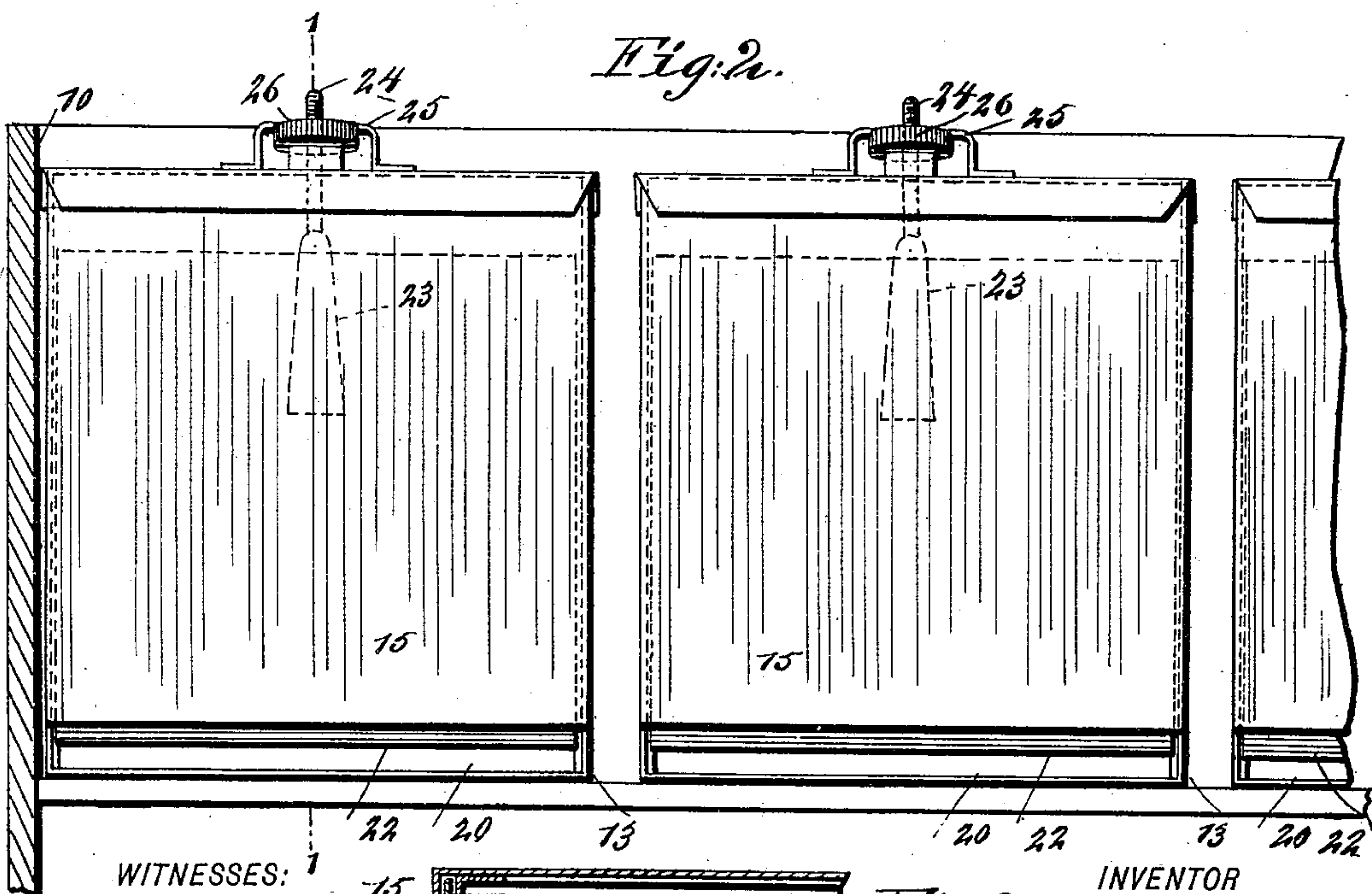
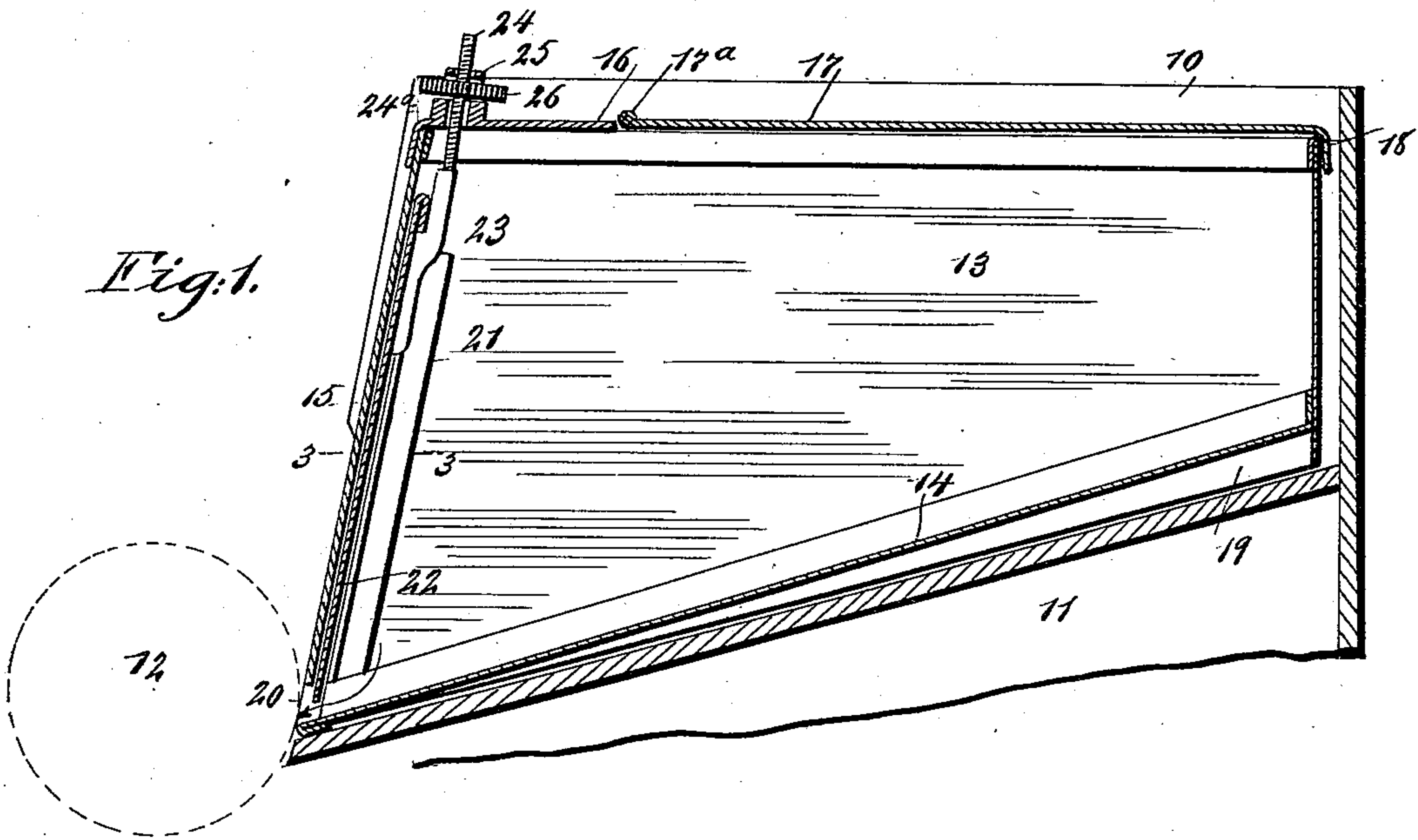


(No Model.)

O. M. MOORE.
INK FOUNTAIN.

No. 512,562.

Patented Jan. 9, 1894.



WITNESSES:
F. M. Andle
C. Sedgwick

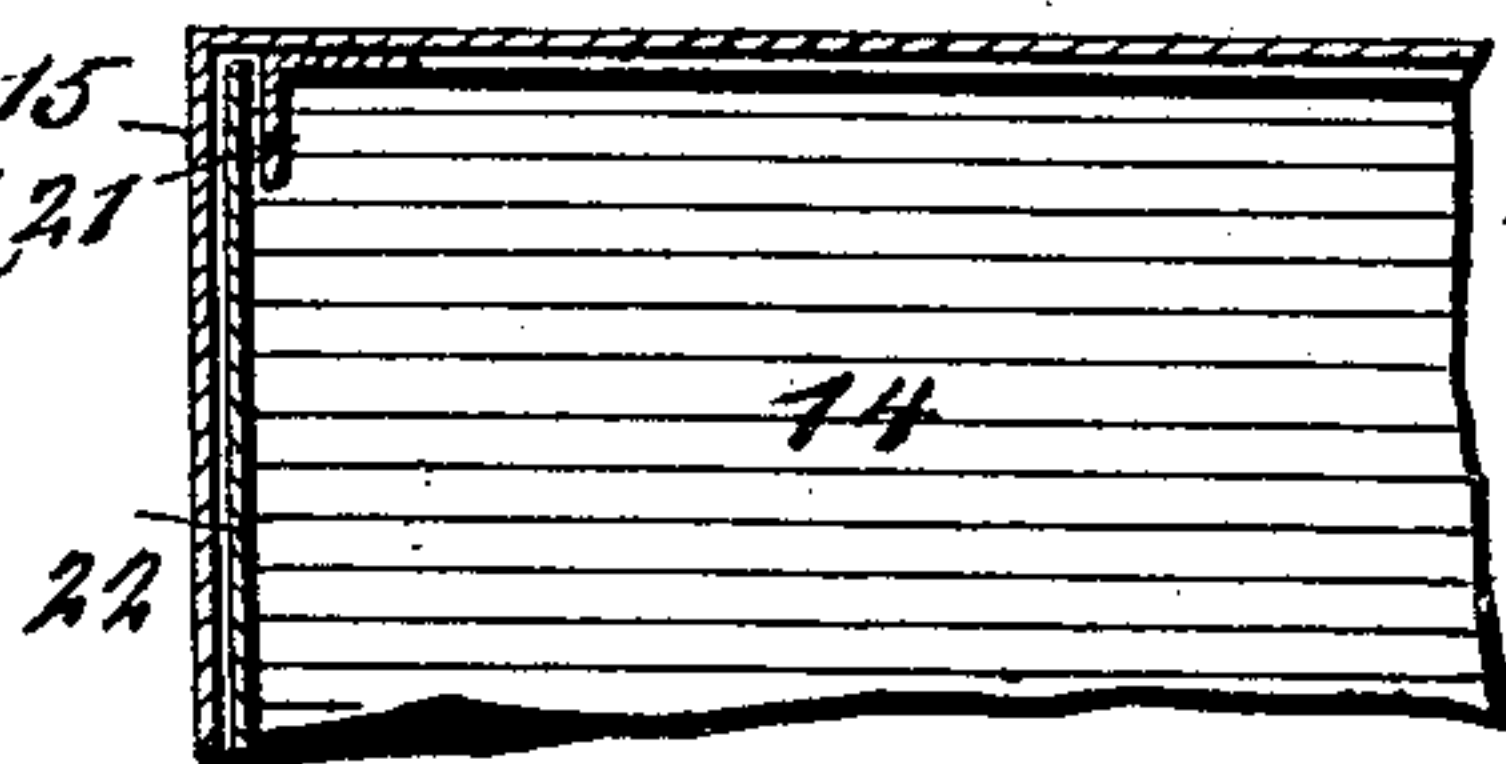


Fig. 3.
INVENTOR
O. M. Moore
BY *Munn & Co*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

OTIS MERRILL MOORE, OF HOQUIAM, WASHINGTON.

INK-FOUNTAIN.

SPECIFICATION forming part of Letters Patent No. 512,562, dated January 9, 1894.

Application filed January 4, 1893. Serial No. 457,223. (No model.)

To all whom it may concern:

Be it known that I, OTIS MERRILL MOORE, of Hoquiam, in the county of Chehalis and State of Washington, have invented a new and Improved Ink-Fountain, of which the following is a full, clear, and exact description.

My invention relates to improvements in subsidiary or supplemental ink fountains, which are adapted to be placed and used in the ordinary, long fountain of any printing press, the object of my invention being to facilitate chromatic color printing, as for instance, in printing show bills in colors in such a way that one color blends with another where the form is printed at one impression. Expensive chromatic fountains are sometimes used for this purpose, and in attempting to use an ordinary fountain for chromatic printing it is customary to arrange partitions within the fountain to separate the different colored inks. This last method is, however, a crude one and does not work satisfactorily.

To this end my invention consists in certain features of construction and combinations of the same, as will be hereinafter described and claimed.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a vertical section on the line 1—1 in Fig. 2, showing in detail the construction of my improved fountain and showing also a broken sectional view of the main fountain, and in dotted lines, the inking roller. Fig. 2 is a broken front elevation of a series of my improved fountains, showing them in position in the main fountain; and Fig. 3 is a broken detail sectional plan view on the line 3—3 in Fig. 1.

The numeral 10 indicates the usual long fountain of a printing press, the same having the common inclined floor 11 and inking roller 12.

A series of my improved fountains 13 is adapted to be arranged within the fountain, or holder 10 so as to deliver different colored inks upon the roller 12, any necessary number of the fountains being used according to the number of colors to be printed, and the

fountains are also made of varying widths to provide for the correct distribution of the inks. The fountain 13 is a closed box-like structure made preferably of sheet metal with vertical sides and with an inclined floor or bottom 14, and also with an inclined front end 15, the rear end being preferably vertical. The front top portion of the fountain is provided with a rigid top or cover 16 to which is hinged, as shown at 17^a, an upwardly swinging lid 17, and the latter is provided with side and end flanges 18 which close tightly over the sides and back end of the fountain. The fountain is also provided with bottom flanges 19 which are highest at the back end of the fountain and serve to hold it above the floor and ink in the fountain 10. At the front end and lower edge of the fountain is a transverse slot 20 extending the full width of the fountain, and through this slot the ink is fed to the roller 12, the fountain being arranged so that the slot comes directly opposite the roller.

In the front corners of the fountain are angle plates 21 which form a slideway in which the gate 22 moves up and down; this gate 22 is the full width of the fountain and is adapted to close the slot 20, and by regulating the height of the gate the amount of ink fed to the roller 12 may be regulated.

At the top portion of the gate, and near the center, is secured a block 23, which terminates in a screw 24 extending upward through a suitable bearing 24^a in the top of the fountain and through a keeper 25 which is secured to the fountain top. The screw 24 is provided with a milled nut 26 which is held within the keeper and upon the bearing 24^a, and by turning the nut the screw may be forced up or down, thus adjusting the gate 22.

When the fountains are to be used they are filled with the inks of the desired colors, the lids 17 being raised for this purpose, the fountains are placed within the main fountain 10, and the feed slots are arranged directly opposite the roller 12. The gates 22 are adjusted so that just the right quantity of ink will flow to the roller and the roller and press are operated in the usual way.

Having thus described my invention, I

claim as new and desire to secure by Letters
Patent—

5 The combination with the holder, consist-
ing of the ordinary, long printing-press foun-
tain, 10, and its roller, 12, of ink fountains,
13, set within such long fountain and having
slots and adjustable gates and inclined bot-

toms provided with flanges for supporting
them, as shown and described.

OTIS MERRILL MOORE.

Witnesses:

GEO. E. T. LAMB,
FRED G. TILLY.