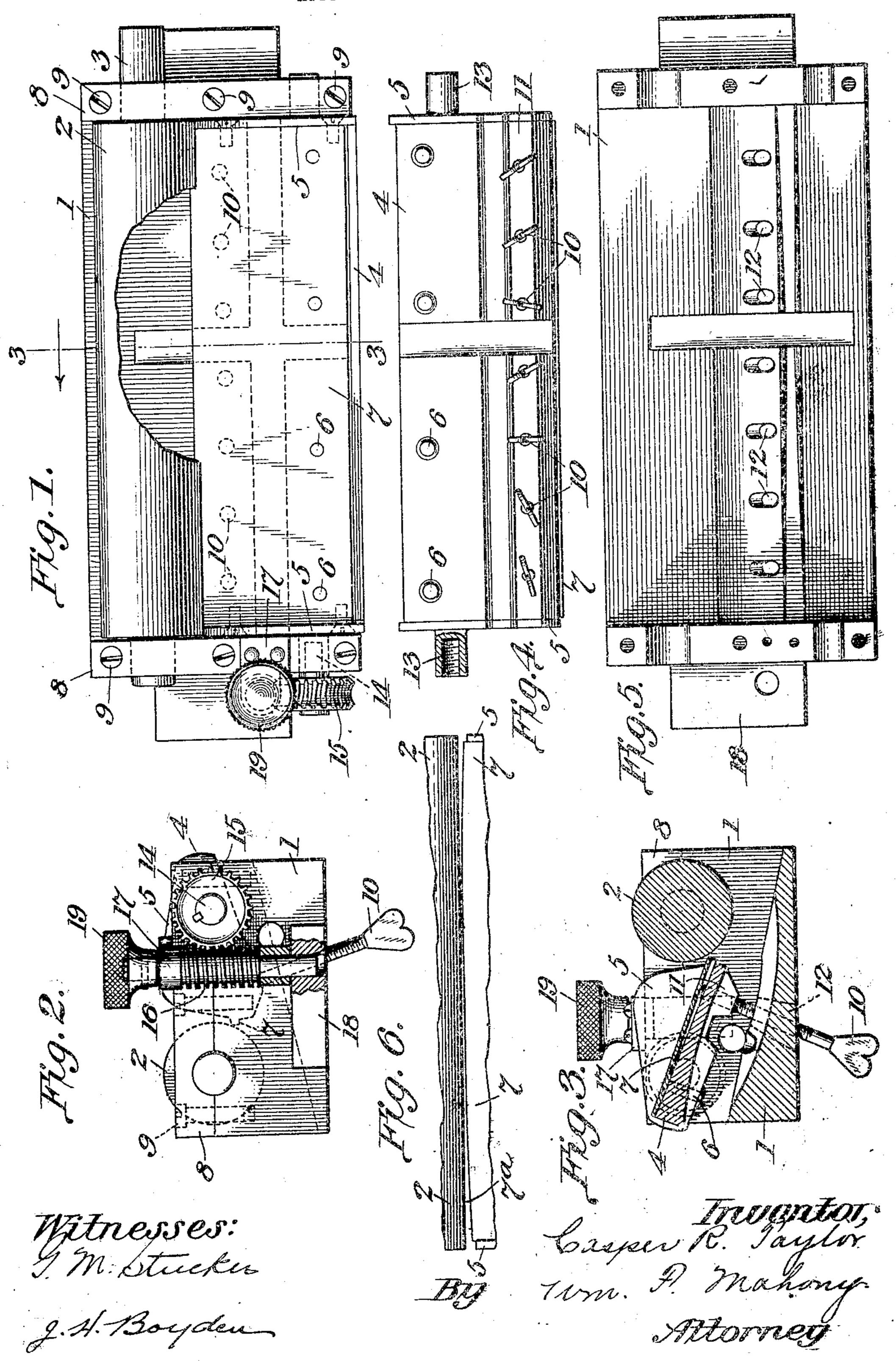
C. R. TAYLOR. INK FOUNTAIN.

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STATES PATENT OFFICE.

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INK-FOUNTAIN.

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Specification of Letters Patent.

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Washington, in the District of Columbia, the reception of the ink. 5 have invented certain new and useful Im- 7 indicates the doctor, which, as shown in

following is a specification.

10 and more particularly to fountains designed. This construction leaves the forward edge for use on presses in which the ink is distributed to the type by means of form rollers. In devices of this character it is beyond the doctor frame. customary to mount an inking roller in the A series of set screws, 10, work in a rib 15 font and to arrange adjacent thereto a | 11, on the doctor frame, and their upper ends ink delivered by said roller. This doctor is adjusted by means of set screws, and, when it is desirable to clean out the font, 20 for any reason, as for refilling with a different | the purpose of which will hereinafter appear. colored ink, it has heretofore been necessary | The bearings in the frame 1, for support- 75 the adjustment of the doctor.

25 provide means for cleaning the font and lift down over said journals and are secured roller without destroying the adjustment of

the doctor.

With the above and other objects in view, my invention consists in the construction when desired. 30 hereinafter described, and illustrated in the accompanying drawings, in which:-

ink font. Fig. 2 is an end elevation of the 16, is arranged to gear therewith, and is jour-35 same, taken on the line 3-3 of Fig. 1 and by the frame 1. 4 is an inverted plan view of the doctor | end of the worm shaft, and affords means frame. Fig. 5 is a plan view corresponding | by which the same may be turned. to Fig. 1, but with the roller and doctor re-40 moved, and Fig. 6 is a diagrammatic view showing fragments of roller and doctor, and the manner of adjusting the latter.

Referring to the drawings in detail, my unproved font comprises a main frame or 45 casting 1, in which is journaled the inking distribution or flow of ink is therefore obroller 2. To one end of the shaft, 3, of this roller, may be secured suitable driving means, (not shown). Also mounted in the casting 1, and supported by means of journals, 13, 50 is a fountain bed, or doctor frame 4, a bottom view of which is seen in Fig. 4. From an inspection of Fig. 3 it will be seen that this doctor frame is thick, and practically rigid, being preferably formed of cast metal. than others, however, the doctor will be dis-

To all whom it may concern: End pieces 5, of sheet metal, are riveted or 55 Be it known that I, Casper R. Taylor, a otherwise secured to the doctor frame, and citizen of the United States, residing at form therewith a kind of trough or box for

provements in Ink-Fountains, of which the Fig. 3 consists of a thin, resilient plate of 60 sheet metal. This lies over the upper sur-My invention relates to novel improve- face of the doctor frame, and, at its rear edge, ments in ink fountains for printing presses, is secured thereto by means of rivets, 6. of the doctor free, and, as shown clearly in 65 Fig. 3, this forward edge projects slightly

knife or doctor for limiting the amount of bear against the under side of the doctor, 70 near its front edge. The shanks of said set screws project downwardly through elongated slots, 12, formed in the main frame 1,

to loosen all the set screws, and thus destroy | ing the journals of the roller 2, and doctor frame 4, are semi-cylindrical, and caps, 8, The primary object of my invention is to also formed with semi-cylindrical bearings in position by means of screws 9. This con- 80 struction is preferred, as it admits of the ready removal of roller and doctor frame

Into one of the journals 13, of the doctor frame, fits a screw plug, 14, on which is 85 Figure 1 is a plan view of my improved rigidly mounted a worm-wheel 15. A worm same. Fig. 3 is a transverse section of the naled at its ends in brackets, 17, 18, carried

looking in the direction of the arrow. Fig. A thumb nut, 19, is mounted on the upper 90

The operation of the device is as follows:— In printing on job presses and the like it is frequently desirable to supply ink more 95 freely to one part of the form than to another, owing to the fact that parts of the type may be heavier than others. The desired tained by adjusting the several set screws 100 10 so as to cause them to bring the edge of the doctor to the proper distance from the roller. If they are all turned forward to the same extent, they will, obviously bring the edge of the doctors up parallel with the 105 roller, and the ink will flow uniformly. By setting forward some of said screws more

torted, and parts of its edge, (as at 7ª Fig. 6) will be at a greater distance from the roller than other parts, and the ink will, of course, flow more freely, over that part of the roller 5 which is at a greater distance from the dector. Having once obtained the proper adjustment of the doctor it is highly desirable to maintain that adjustment while printing the entire edition from any particular form, 10 even though some part of the edition be printed in a different color from other parts. In order, then to clean out the font, for the purpose of changing inks, or other reason, the entire doctor frame is swung away from the roller by operating the worm 16. The doctor frame swings on its trunnions 13, and the screws 10 move in the elongated slots, 12. When cleaned, the doctor frame may be swung back, and printing resumed, the rela-20 tive or local adjustment of the doctor, having remained undisturbed, and the distribution of ink being, therefore exactly the same as before.

1. In an ink fountain, a frame, a roller journaled therein, a doctor in operative relation with said roller, means for adjusting said doctor locally at any point throughout its length, and means for bodily moving said doctor without interfering with such local adjustment.

What I claim is:—

2. In an ink fountain, a frame, an ink roller journaled therein, a doctor frame also journaled therein, means for swinging said

doctor frame, a flexible doctor secured there- 35 to, and in operative relation with said roller, and local adjusting means for flexing said doctor, carried by said doctor frame.

3. In an ink fountain, a frame, a roller journaled therein, a doctor frame also journaled therein, a resilient doctor secured to said doctor frame and in operative relation with said roller, means for locally adjusting said doctor by flexing the same, said means comprising set screws carried by said doctor 45 frame and bearing against said doctor, and means for bodily swinging said doctor frame on its journals.

4. In an ink fountain, a main frame, provided with slots, a roller journaled therein, a 50 doctor frame also journaled therein, a doctor carried by said doctor frame in operative relation with said roller, adjusting screws carried by said doctor frame and bearing against said doctor at intervals throughout 55 its length, said screws having their shanks projecting through the slots in said main frame, whereby ready access may be had to said screws, and means for swinging said doctor frame to and from said roller.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

CASPER R. TAYLOR.

Witnesses:

ELIAS WOLFE, JAS. W. HUGHES.