A. M. COTTRELL.

INK FOUNTAIN FOR PRINTING PRESSES.

APPLICATION FILED APR. 27, 1909.

943,218. Patented Dec. 14, 1909.

Fig. 2.

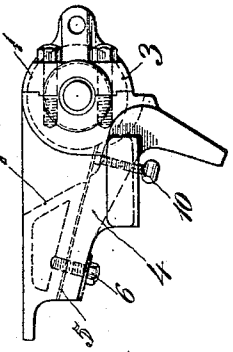


Fig. 4.

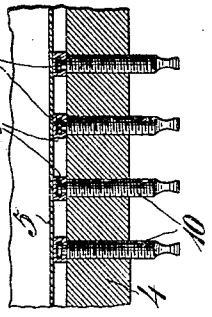


Fig. 1.

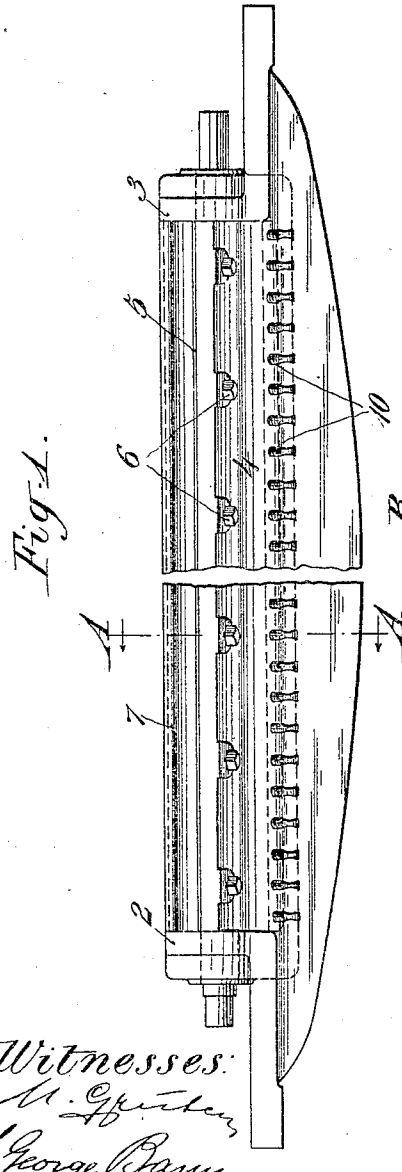


Fig. 7.

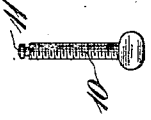


Fig. 3.

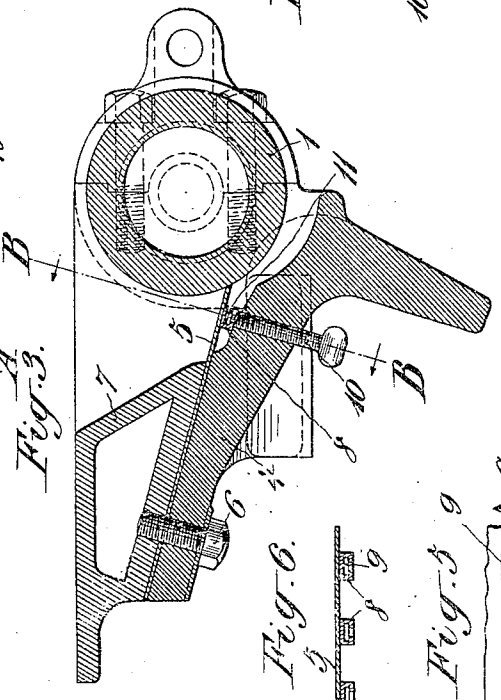


Fig. 6.

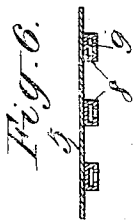
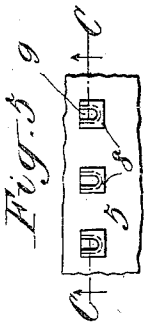


Fig. 5.



Witnesses:
M. Gruber
J. George Barry

Inventor:
Arthur M. Cottrell
by his attorneys
Brown & Seward

UNITED STATES PATENT OFFICE.

ARTHUR M. COTTRELL, OF WESTERLY, RHODE ISLAND, ASSIGNOR TO C. B. COTTRELL & SONS COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW JERSEY.

INK-FOUNTAIN FOR PRINTING-PRESSES.

943,218. Specification of Letters Patent. Patented Dec. 14, 1909.

Application filed April 27, 1909. Serial No. 492,485.

To all whom it may concern:

Be it known that I, ARTHUR M. COTTRELL, a citizen of the United States, and resident of Westerly, in the county of Washington and State of Rhode Island, have invented a new and useful Improvement in Ink-Fountains for Printing-Presses, of which the following is a specification.

This invention consists in improvements in ink fountains for printing presses and has for its object to provide means for positively moving the different portions of the blade toward and away from the fountain roll with the greatest accuracy for decreasing and increasing the supply of ink on the roll, as desired, to accomplish certain predetermined results.

With the above object in view my invention consists more specifically in providing means for interlocking the adjusting screws and blade, said means comprising a series of lugs on the under face of the blade, said lugs having undercut slots and providing the ends of the adjusting screws with heads located within the said slots whereby the different portions of the blade are moved positively toward and away from the fountain roll.

In the accompanying drawings, Figure 1 is a view in side elevation of the ink fountain, an intermediate portion thereof being broken away, Fig. 2 is an end view of the fountain. Fig. 3 is an enlarged transverse section taken in the plane of the line A—A of Fig. 1, Fig. 4 is a detail longitudinal section taken in the plane of the line B—B of Fig. 3, Fig. 5 is a detail inverted plan view of the blade, Fig. 6 is a section taken in the plane of the line C—C of Fig. 5, and Fig. 7 is a detail view of one of the adjusting screws.

The fountain roll is denoted by 1 and it is rotatably mounted in suitable bearings in the uprising sides 2, 3, of the bottom 4 of the fountain.

The blade is denoted by 5 and it is secured by screws 6 in the usual manner between the plate 7 which forms the back wall of the fountain and the bottom plate 4.

The different portions of the blade 5 are moved positively toward and away from the fountain roll as follows: The blade 5 is provided along its under face with a series of lugs 8 brazed to or otherwise forming permanent parts of the blade, which lugs are provided with undercut slots 9.

A series of adjusting screws 10 extend upwardly through the bottom 4 of the ink fountain. These adjusting screws are provided with heads 11 located within the undercut recesses 9 so that by turning the screws, the different portions of the blades are positively moved.

For permitting the insertion and removal of the blade, the undercut slots 9 in the lugs are open through the front of the lugs.

It will be seen that by interlocking the adjusting screws and blade, the different portions of the blade may be positively moved with the utmost accuracy to bring the edge of the blade to a predetermined point with respect to the periphery of the fountain roll so as to insure the proper deposit of ink upon the fountain roll for accomplishing a certain predetermined result.

What I claim is:—

1. An ink fountain including a fountain roll, a blade and a series of adjusting screws removably interlocked to the blade for positively moving the different portions of the blade toward and away from the roll and also permitting the ready insertion and removal of the blade.

2. An ink fountain including a fountain roll, a blade provided with a series of lugs along its under face, and a series of adjusting screws removably interlocked with said lugs for positively moving the different portions of the blade toward and away from the roll and also permitting the ready insertion and removal of the blade.

3. An ink fountain including a fountain roll, a blade provided with a series of lugs along its under face having undercut slots, and a series of adjusting screws having heads located within said slots whereby the screws may positively move the different portions of the blade toward and away from the roll.

4. An ink fountain including a fountain

roll, a blade provided with a series of lugs along its under face having open ended undercut slots and a series of adjusting screws having heads removably located within said slots whereby the screws may positively move the different portions of the blade toward and away from the roll and will also permit the ready insertion and removal of the blade.

In testimony, that I claim the foregoing as my invention, I have signed my name in presence of two witnesses, this twenty-sixth day of April A. D. 1909.

ARTHUR M. COTTRELL.

Witnesses:

A. R. STILLMAN,

G. BURDICK.