J. THOMPSON.

FOUNTAIN DIVIDER.

APPLICATION FILED APR. 15, 1915.

1,158,334.

Patented Oct. 26, 1915.

Fig. 1.

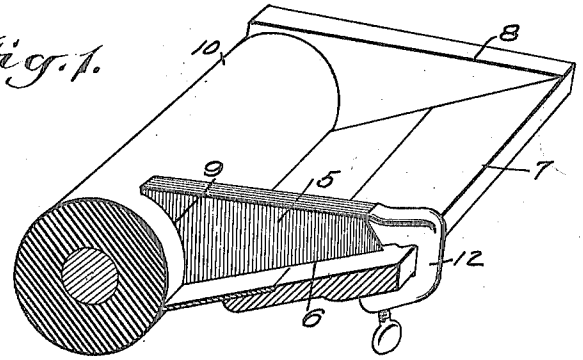


Fig. 2.

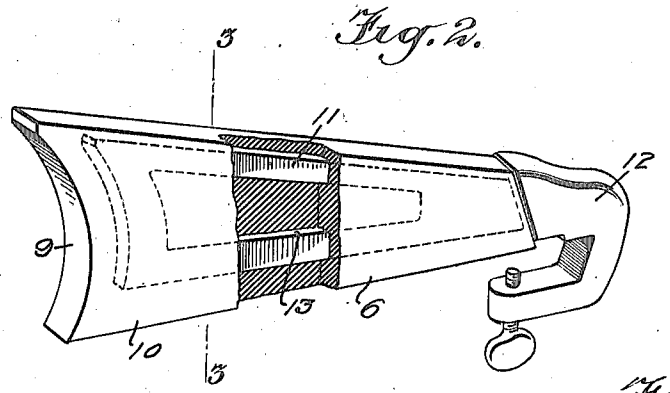


Fig. 4.

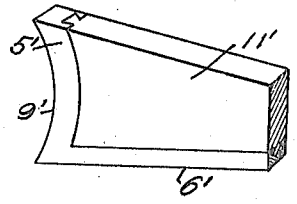
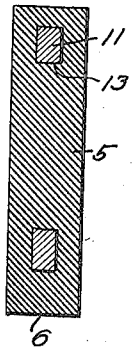


Fig. 3.



WITNESSES:

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FOUNTAIN-DIVIDER.

1,158,334. Specification of Letters Patent. Patented Oct. 26, 1915.

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To all whom it may concern:

Be it known that I, JAMES THOMPSON, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Fountain-Divider, of which the following is a full, clear, and exact description.

My invention relates to dividers for printing-ink fountains. An object of the invention is the provision of a simple, efficient and inexpensive fountain divider whereby the ink fountain of a printing press may be separated into sections or compartments in which various kinds of ink may be used without danger of the ink filtering from one compartment into the other or from one portion of the fountain roller to the adjacent portion separated by the divider. A further object of the invention is to provide a fountain divider which will shape itself to the curvature of the printing roller, no matter how irregular its surface may be.

With the above and other objects in view, the nature of which will more fully appear as the description proceeds, the invention consists in the novel construction, combination and arrangement of parts as herein fully described, illustrated and claimed.

In the accompanying drawings, forming part of the application, similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of an ink fountain provided with my divider; Fig. 2 is a perspective view partly in section showing the details of construction; Fig. 3 is a cross section on line 3—3, Fig. 2; and Fig. 4 is a modified structure of my device.

Referring to the drawings, 5 represents a flexible member of compressible nature, such as rubber or rubber composition, the lower edge 6 of which is adapted to engage the bottom 7 of the fountain 8. The arcuated concave edge 9 of the flexible member 5 will fit snugly against the fountain roller 10, no matter how irregular its surface may be. The flexible member 5 is preferably tapering from the curved end.

To give body to the flexible member 5 and to permit the retention thereof in proper position in the fountain, the same is anchored to a wedge-shaped core 11 located within the flexible member, so that there is a greater thickness between the wearing edges of the flexible member. The core 11 forms the reinforcement for the flexible member, and has an arm 12 in the shape of a clamp whereby the same can be secured to the bottom 7 of the fountain (see Fig. 1). The core has also a central opening 13, as shown in Fig. 2, to obtain a better anchoring of the flexible member on the core.

In Fig. 4 a modified divider is shown, in which case the flexible member of compressible nature 5 only borders the core 11′ at the edges where the contact is to take place, that is, at the curved edge 9′ and at the lower edge 6′. The flexible member 5′ in this case will perform exactly the same functions as has been described in regard to Figs. 1 to 3.

Due to the fact that the contacting surfaces of the divider are compressible, a perfect joint is obtained, thereby positively preventing any leaking from one compartment of the fountain into the other, and also along the surface of the roller. The divider, due to its compressibility and flexibility, is self-adjustable.

While I have described the principle of operation, together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative and that such changes may be made as are within the scope of the appended claims.

I claim:

1. The combination with a printing-ink fountain, embodying a fountain roller, of a fountain divider having a flexible non-metallic member of compressible nature adapted to engage the bottom of the fountain and the roller, a core for said flexible member having an arm whereby the same can be secured to the fountain, substantially as and for the purpose set forth.

2. The combination of a printing-ink fountain, embodying a fountain roller, of a fountain divider comprising a flexible, non-metallic member adapted to contact with the bottom of the fountain and the roller, and an interior reinforcing member for said flexible member, said reinforcing member having means for attaching the divider to the fountain.

3. The combination with a printing-ink fountain, embodying a roller, of a fountain divider comprising a flexible member adapted to contact with the bottom of the fountain and the roller, and a core for said flexi-

ble member having an arm, including means for securing the same to the fountain, said flexible member being molded about said core, said core having a central opening for better anchoring the flexible member to the core.

4. The combination of a printing-ink fountain, embodying a roller, of a divider comprising a flexible member of rubber or rubber composition adapted to contact with the bottom of the fountain and with the roller, a core within said flexible member reinforcing the same; and an arm extending from said core whereby the same can be secured to the bottom of the fountain, substantially as and for the purpose set forth.

5. The combination of a printing-ink fountain, embodying a roller, of a fountain divider comprising a flexible and compressible member adapted to contact with the bottom of the fountain and with the roller, and a core within said member including means projecting out of said member for securing said member to the fountain.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JAMES THOMPSON.

Witnesses:
JOHN ROBERTSON,
DENNIS J. DALEY.