

(Model.)

C. D. LLOYD.
PRINTING PRESS.

No. 285,421.

Patented Sept. 25, 1883.

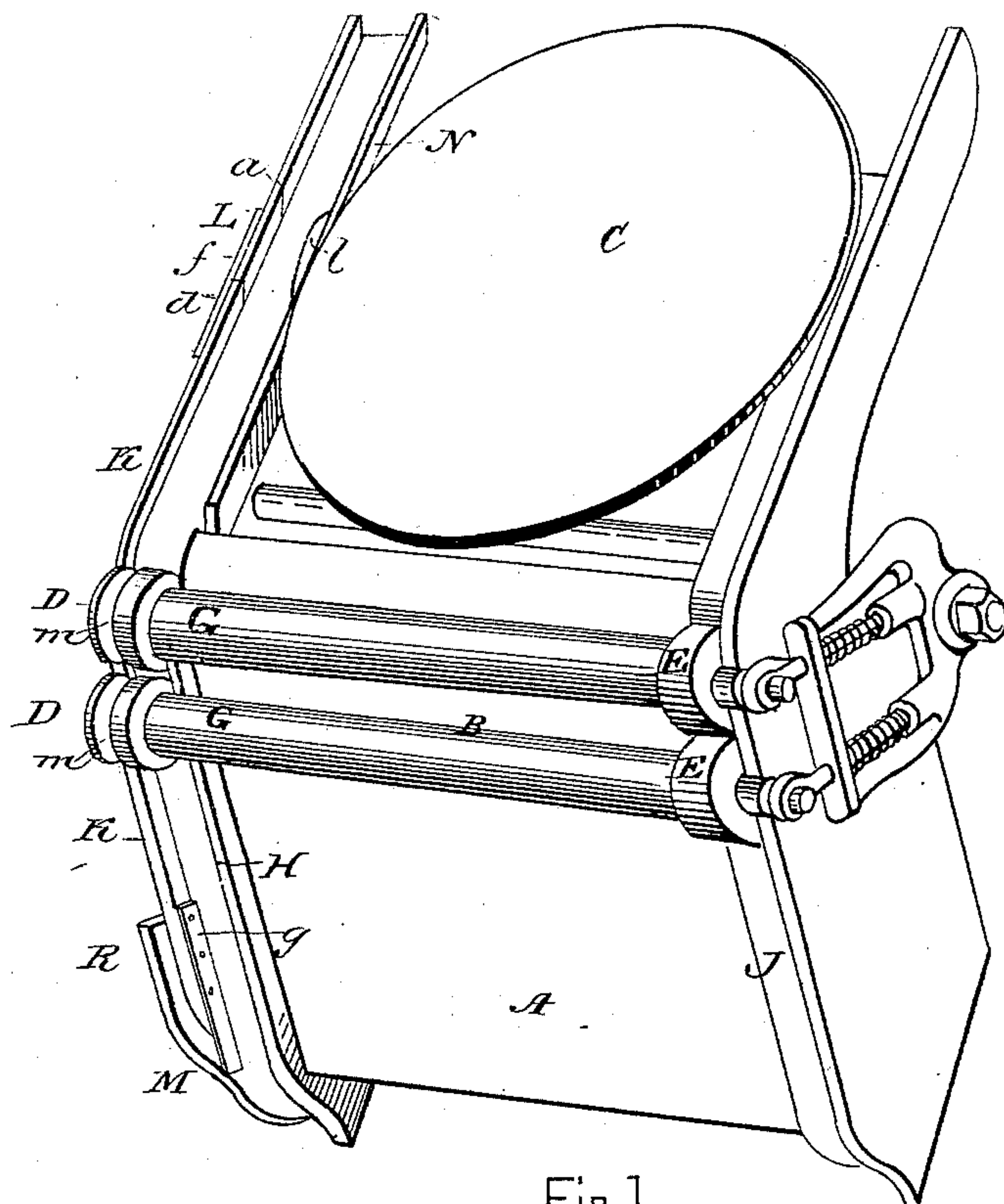


Fig.1.

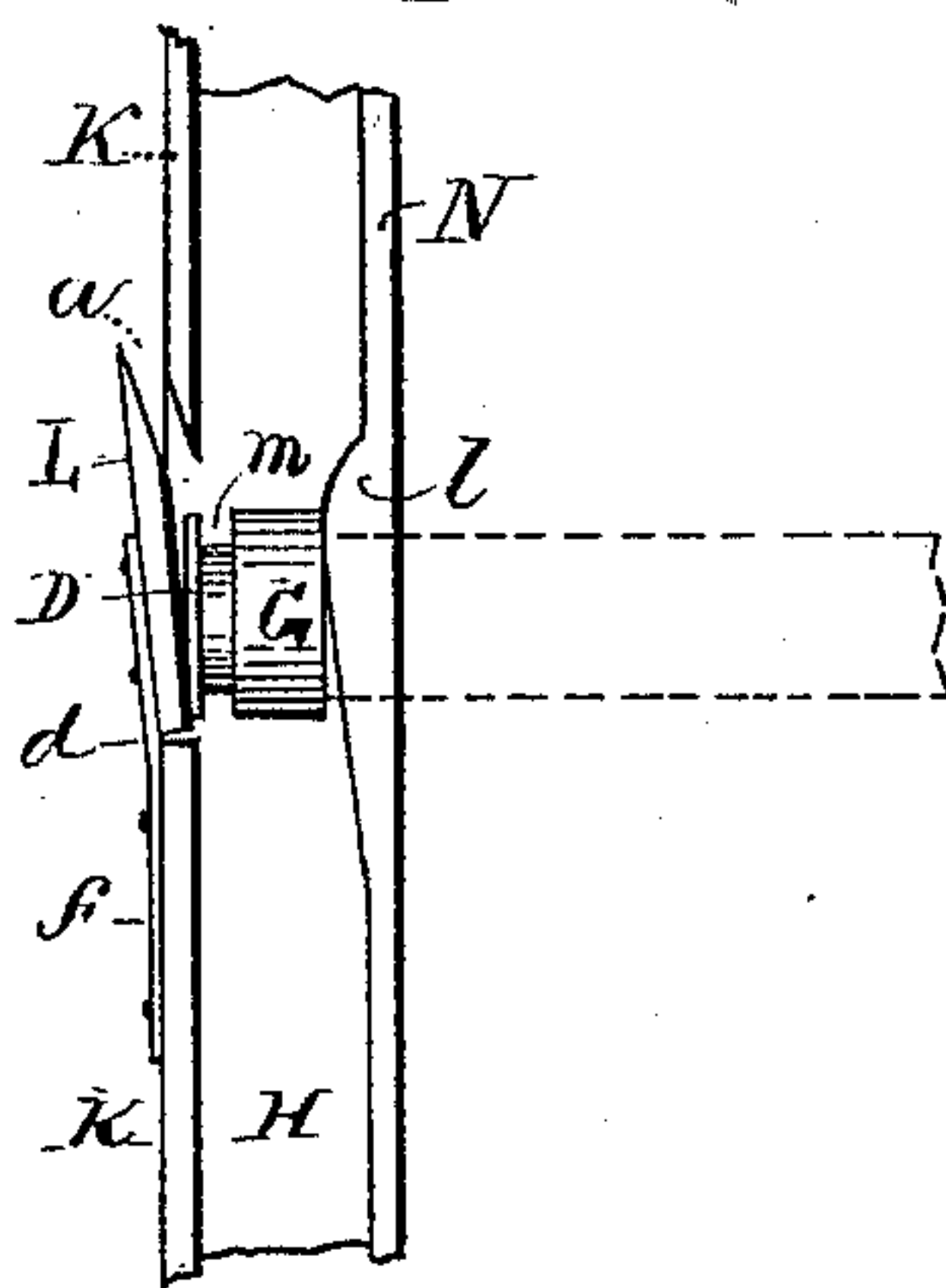


Fig.2.

Witnesses:

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Inventor

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UNITED STATES PATENT OFFICE.

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PRINTING-PRESS.

SPECIFICATION forming part of Letters Patent No. 285,421, dated September 25, 1883.

Application filed March 15, 1883. (Model.)

To all whom it may concern:

Be it known that I, CHARLES D. LLOYD, of Framingham, in the county of Middlesex, State of Massachusetts, have invented a certain new and useful Improvement in Printing-Presses, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is an isometrical perspective view representing a printing-press provided with my improvement, and Fig. 2 a front elevation showing the roll-shifting mechanism detached.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

My invention relates to the inking mechanism of the press; and it consists in a novel construction and arrangement of the parts, as hereinafter more fully set forth and claimed, by which a more effective device of this character is produced than is now in ordinary use.

In the Gordon job-press and all presses of similar construction having a rotating distributing-disk the inking-rolls, after having received a supply of ink from the distributing-disk, are passed over the form in contact with the type and returned to the distributing-disk again in the same course or over the same line of traverse, thus rendering the process of inking the type liable to be imperfectly performed.

My improvement is designed to obviate this objection, and to that end I make use of means which will be readily understood by all conversant with such matters from the following explanation, the extreme simplicity of the invention rendering an elaborate description unnecessary.

In the drawings, A represents the bed of the machine on which the form is secured, B the ink-rolls, and C the distributing-disk, these parts being all constructed and arranged in the ordinary manner, except as hereinafter specified. The rolls are provided with the usual supporting-trucks G E, which are fitted to run on the ways or tracks H J at the sides of the press, the trucks being secured firmly to the shaft or body of the roll in the usual manner. The trucks G are elongated and provided with

the annular grooves *m* and flanges D. A thin flange or wall, K, is raised along the outer side of the track H, this flange corresponding nearly in thickness and height with the width and depth of the grooves *m*. A section of the wall near its upper end is removed, as shown at *d a*, the lower cut, *d*, being at right angles, and the upper cut, *a*, diagonal to the sides of the wall. A switch-tongue, L, is fitted into the aperture between the cuts and provided on its outer side with a flat spring, *f*, one end of which is attached to the wall and the other to the tongue, the spring forming a hinge at its lower end, and acting to force the tongue inwardly into the aperture and close the same, thereby rendering the wall continuous at that point. A similar aperture is formed in the lower part of the wall, into which a switch-tongue, M, is fitted, and provided with a spring, *g*, on its inner side, the spring forming a hinge at the upper end of the tongue, and acting to press the tongue outwardly instead of inwardly in closing the aperture. Arranged opposite the tongue L, on the other side of the track H, there is a raised flange, N, having a cam-shaped face, *l*, and opposite the tongue M, outside of the same, there is a guard or flange, R, its lower end being curved inwardly and attached to the wall K, and its upper end free. The track H is made slightly wider than the length of the truck G, including the groove *m* and flange D, to enable the truck to traverse freely over the same.

In the use of my improvement, the trucks G being on the track H, if, now, the press is started up to cause the rolls B to pass upwardly onto the distributing-disk C, when the trucks arrive opposite the tongue L, the inner edges of the trucks will strike the cam *l*, as seen in Fig. 2, thereby shunting or forcing the trucks endwise against the tongue, and causing it to open on its spring-hinge *f*. As the rolls continue to move forward over the distributing-disk that part of the wall K above the tongue L will enter the grooves *m* in the trucks, and when all of the trucks have passed the tongue it will close or be forced back into the position shown in Fig. 1. The motion of the rolls is now reversed, and as they pass downwardly over the distributing-disk, the tongue L being closed and the wall rendered continuous, the trucks G will not return to their nor-

mal position on the track H until they reach the lower end of the same, when the flanges D will strike the curved inner face of the guard R and open the tongue M, thereby shunting the rolls and returning the trucks G to their original position on the track H, preparatory to repassing the rolls over the type, in a manner which will be readily obvious without a more explicit description.

It will be seen that the position of the rolls with respect to the ink-distributing disk and also to the type is changed at each upward and downward movement of the roll-carriers, thereby alternately changing the inking-surfaces brought to bear on the type.

It will be understood that one or more rolls may be used, as desired, and that the diameter of the trucks G E is greater than that of the body of the roll to which they are attached; also, that the rolls are to be properly journaled to permit them to be shunted or moved endwise, as described.

A spring may also be used in place of the cam I, although I deem the cam preferable.

Having thus explained my invention, what I claim is—

1. In a printing-press, the track H and wall K, the wall being provided with the spring-tongue L, in combination with the cam-flange N, grooved truck G, roll B, and means, substantially as described, for shunting the roll or returning the truck to the track at the lower end of its course, substantially as set forth.

2. In a printing-press, the track H, cam-flange N, and wall K, the wall being provided with the spring-tongues L M, in combination with the guard R, grooved truck G, roll B, and operative mechanism, substantially as specified.

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Witnesses:

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