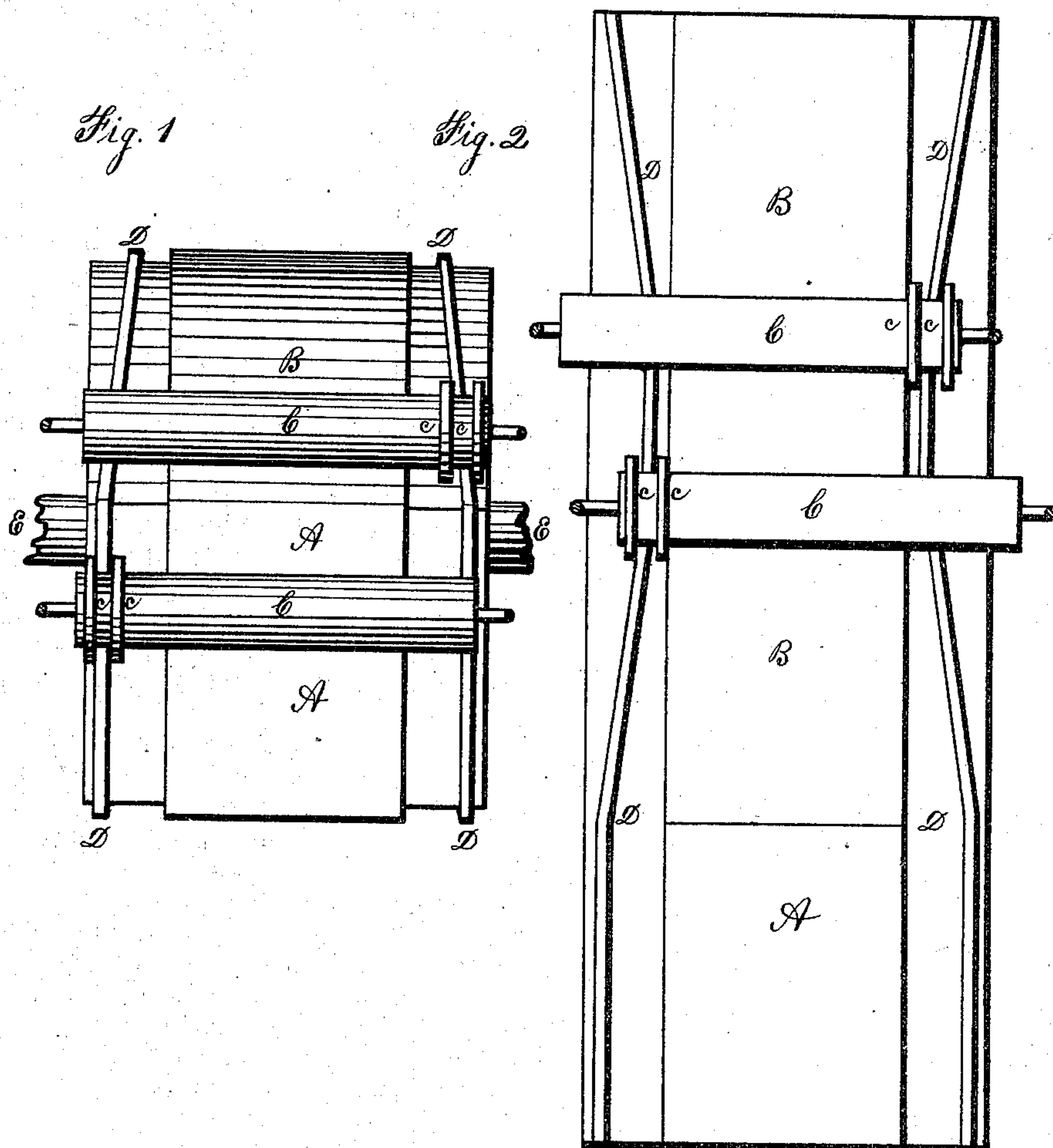


E. ALLEN.

Inking Apparatus for Rotary Printing Presses.

No. 142,607.

Patented September 9, 1873.



Witnesses  
a. y. Park  
Webster Park

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# UNITED STATES PATENT OFFICE.

EDWIN ALLEN, OF NORWICH, CONNECTICUT, ASSIGNOR TO THE ALLEN MANUFACTURING COMPANY, OF SAME PLACE.

## IMPROVEMENT IN INKING APPARATUS FOR ROTARY PRINTING-PRESSES.

Specification forming part of Letters Patent No. 142,607, dated September 9, 1873; application filed April 19, 1873.

*To all whom it may concern:*

Be it known that I, EDWIN ALLEN, of Norwich, in New London county, and State of Connecticut, have invented certain Improvements in Inking Apparatus for Rotary Printing-Presses, of which the following is a specification:

My invention consists of a combination of a crooked track, arranged on each side of a flat or curved ink-distributing surface, with a flanged metal roll upon one end of each of the inking-rollers, running upon the crooked track, by which means these inking-rollers, while passing over the distributing-surface, are caused to vibrate more or less, so that the form-rollers also become distributing-rollers; this arrangement being equally applicable to presses having stationary rollers with the cylinder revolving under them, to those having a stationary cylinder with the rollers moving around it; also, to those having rollers passing back and forth over a flat distributing-surface, or to those in which the flat surface passes under the rollers; the object being to provide a cheaper and more compact and effective means of distribution, and to dispense with separate distributing-rollers, by using the same rollers both for inking the form and for distribution.

Figure 1 is a top view of a cylinder with two rollers, illustrating my invention. Fig. 2 shows the entire circumference of the same cylinder spread out flat, forming a flat distributing-surface, as required in that class of presses.

A is the bed on which the form of type is secured. B is the curved or flat distributing-surface. C are the form and distributing rollers, of which there may be two or more, as desired. D are the crooked tracks, which are parallel by the type-bed, but approach and recede from each other while passing by the distributing-surface. *cc* are the flanges upon the metal roll on one end of each inking-roller. These flanged metal rolls are arranged alternately, one upon one track, the next upon the opposite track, and so on through any number of rollers, so that while one inking-roller is traveling to the right the next is traveling to the left, by which means a thorough distribution is effected.

It has not been deemed necessary, in the drawings, to show the supports or the driving mechanism, for these are all of the ordinary construction and arrangement.

I claim as my invention—

The combination and arrangement of two tracks, D D, straight and parallel, each side of the type-bed A, but crooked each side of the distributing-surface B, with two or more rollers, C, having flanges *cc* on their alternate ends, so that, on the straight tracks, these rollers ink the form, and on the crooked tracks vibrate to distribute the ink, substantially as herein set forth.

EDWIN ALLEN.

Witnesses:

A. F. PARK,  
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