C. H. BRETT.

ADJUSTABLE SUPPORT FOR INKING ROLLERS OF PRINTING PRESSES.

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1,030,712. Patented June 25, 1912.

Fig. 1.

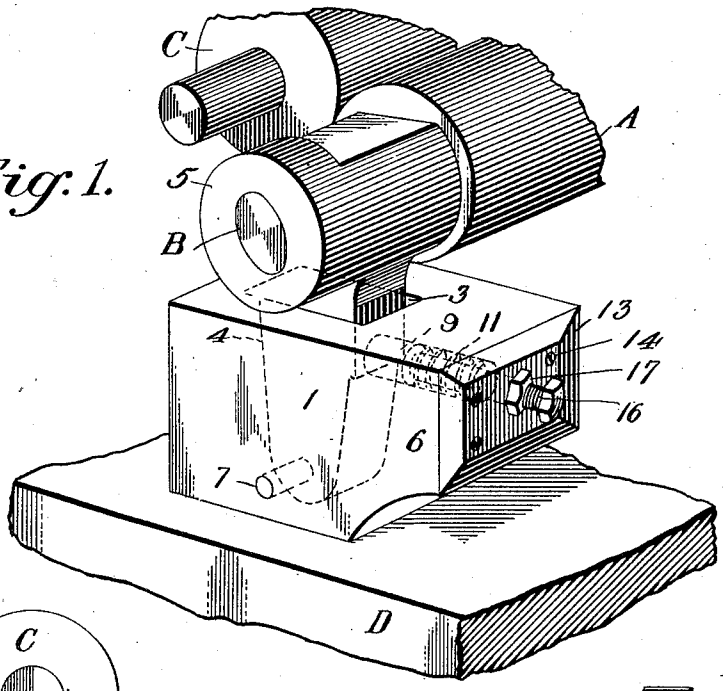


Fig. 2.

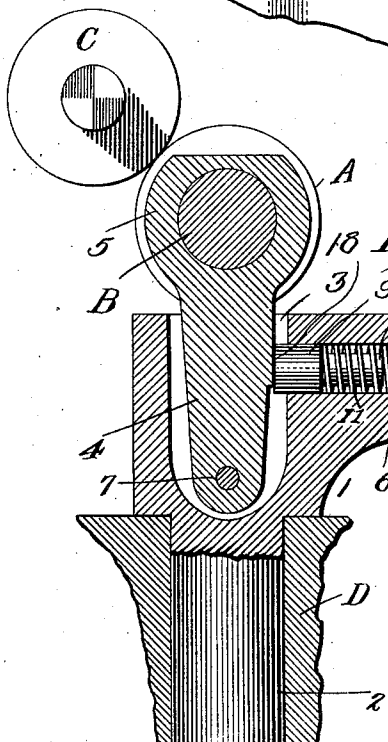
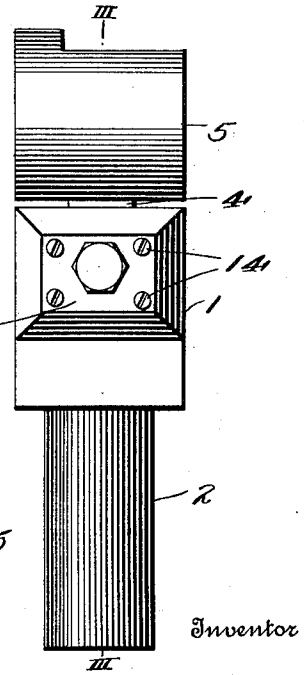
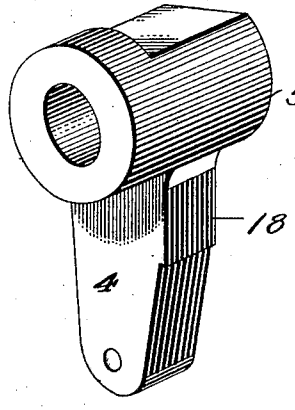


Fig. 3.

Fig. 4.





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ADJUSTABLE SUPPORT FOR INKING-ROLLERS OF PRINTING-PRESSES.

1,030,712. Specification of Letters Patent. Patented June 25, 1912.

Application filed June 29, 1910. Serial No. 569,541.

To all whom it may concern:

Be it known that I, CHARLES H. BRETT, a citizen of the United States, residing at Carthage, in the county of Jasper, State of Missouri, have invented certain new and useful Improvements in Adjustable Supports for Inking-Rollers of Printing-Presses, of which the following is a specification.

My invention relates to the inking mechanism of printing presses and especially to the bearings for composition inking rollers that bear against a non-adjustable iron roller; known as the vibrator.

In order to maintain the proper pressure of the composition roller against the vibrator, it is necessary to compensate for expansion or contraction in the roller due to temperature changes, and also for unevenness in the rollers, due to local or other conditions.

The object of my invention is to provide self-adjusting spring-tension sockets or bearings for the composition rollers, whereby there is maintained a constant and correct pressure of such roller against the vibrator.

The accompanying drawings illustrate that form of my invention which I consider the most adaptable to good results.

Of the drawings; Figure 1 is a perspective view of my invention. Fig. 2 is an end view of the same. Fig. 3 is a sectional view taken on line III—III of Fig. 2. Fig. 4 is a perspective view of the roller bearing detached.

In the drawings A represents an ink distributing roller formed of a more or less elastic composition, the shaft B of which is mounted in the bearing or support constituting the subject of this invention. This roller works in contact with the non-adjustable iron distributing roller C, commonly called the vibrator.

1 designates a holder for the adjustable bearing in which is mounted the shaft of the roller A, there being one of these holders at each end of the roller. The holder is provided with a stem 2 adapted to be seated in a socket or recess in the framework D of the press. A slot or recess 3 is formed in the holder 1 arranged to receive the radius arm 4 of the bearing socket 5 for the ink roller shaft B. This arm is pivotally connected with the holder by a pin 7. The holder is provided with an offset 6 to receive the adjustable and yielding devices for holding the roller against the vibrator. In the offset or extension 6 of the holder there is formed a hole or recess 8 communicating with the slot 3. A plunger 9 formed with a stem 10 of reduced diameter, upon which is mounted a coiled spring 11, is seated in the recess 8 and bears against a flat seat 18 formed on one edge of the radius arm of the bearing. The outer end of the opening 8 is closed by a removable plate 13 secured to the end of the extension of the holder by bolts or screws 14. In this plate is formed a screw-threaded aperture 15 in which is fitted a screw 16 adapted to bear against a disk 12 which is interposed between the end of the screw or bolt and the spring 11. A set nut 17 mounted upon the bolt is employed to hold the bolt in the position to which it may be adjusted.

It will be seen that the holder 1 is a structural element complete in itself and easily removable from the framework of the printing machine and carries the bearing for the shaft of the roller A, the radius arm thereof, and the pivot on which it is supported, and also the adjustable means for holding the said roller with yielding force against another roller with which it coöperates when in operation.

The operation of the invention is as follows: The roller A being supported in its bearings and these mounted in the framework of the press, as illustrated in Fig. 1, the screw bolt 16 is adjusted so as to hold the roller A against the vibrator with a desired degree of tension. The spring 11 will operate to hold the roller in yielding engagement with the vibrator notwithstanding the former may vary in diameter owing to contraction or expansion due to temperature changes, or slight variations in shape incident to wear or otherwise.

Having described my invention what I claim is:

1. In a printing machine, the combination with an inking roller, of a bearing therefor having a radius arm, a recessed holder in which the arm of the bearing is pivotally supported arranged to be supported by the framework of the machine, and means mounted in the said holder for engaging with the said arm and holding the roller in yielding engagement with another roller, substantially as set forth.

2. In a bearing for ink rollers, the com-

bination of a bearing having a radius arm, a recessed holder into which the radius arm extends and to which it is pivoted, a spring supported in the said holder and acting upon the said arm, and means for adjusting the tension of the spring, the said holder being arranged to be easily applied to or removed from a printing machine.

3. In a bearing for inking rollers, the combination of a bearing having a radius arm, a recessed holder to which the arm is pivoted, a plunger seated in the holder and bearing upon the said arm, a spring acting upon the plunger, and means for adjusting the tension of the spring.

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