(No Model.)

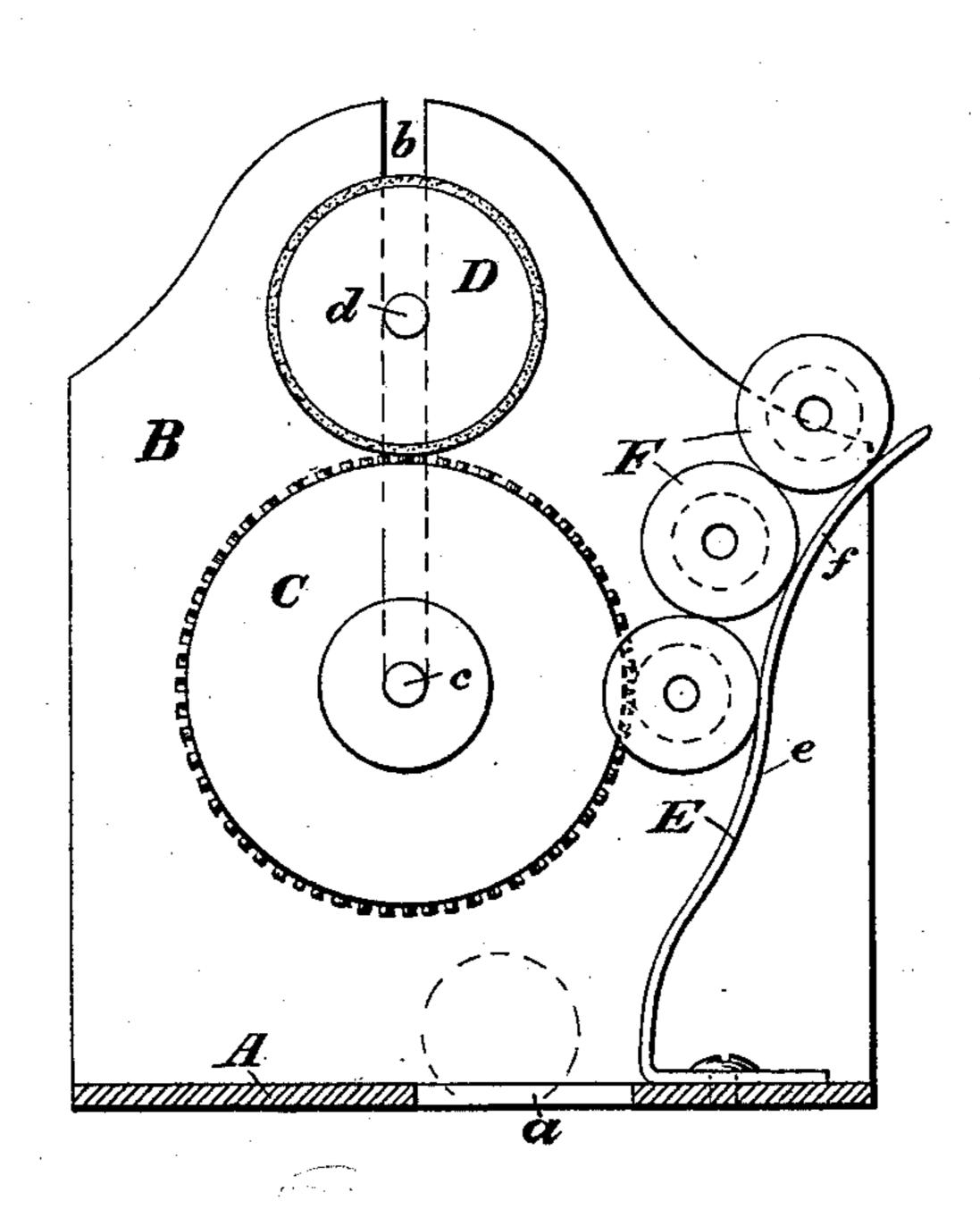
I. C. DAVIS & J. BROWN.

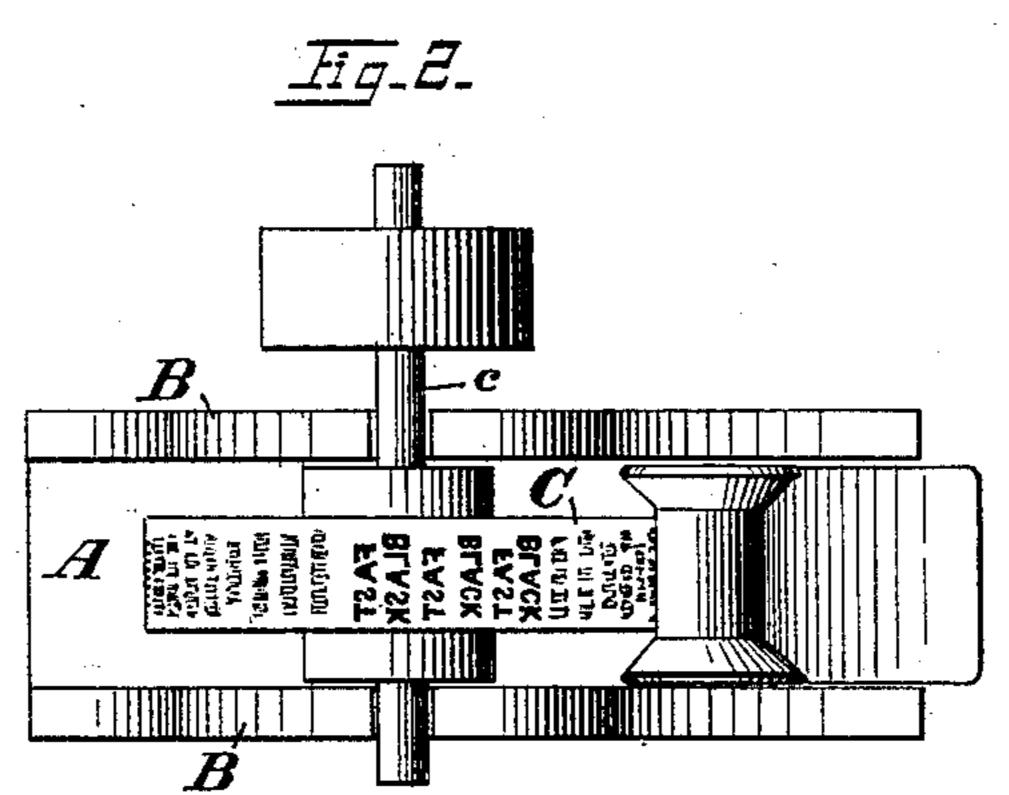
MACHINE FOR PRINTING THE PERIPHERIES OF SPOOLS AND OTHER CIRCULAR BODIES.

No. 452,598.

Patented May 19, 1891.

<u> Fig. I.</u>





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MACHINE FOR PRINTING PERIPHERIES OF SPOOLS AND OTHER CIRCULAR BODIES.

SPECIFICATION forming part of Letters Patent No. 452,598, dated May 19, 1891.

Application filed February 4, 1891. Serial No. 380,116. (No model.)

To all whom it may concern:

Be it known that we, INA C. DAVIS, of Newark, in the county of Essex and State of New Jersey, and John Brown, of Kearney, in the county of Hudson and State of New Jersey, have invented a new and useful Improvement in Machines for Printing Peripheries of Spools and other Circular Bodies, of which the following is a specification, reference being had to the accompanying drawings.

The principal object of this invention is to obtain a very simple machine for printing the peripherical surfaces of spools for sewing-thread and sewing-silk and for other fabrics; but a machine embodying our invention may also be used for printing the peripheries of

other cylindrical or circular bodies.

Figure 1 is a side view, partly in section, of a machine for printing spools constructed according to our invention. Fig. 2 is a top view of the same, the inking-roller being omitted to expose the printing-roller.

Similar letters of reference designate corre-

sponding parts in both the figures.

A is a bed-plate, on which are arranged two standards B B, which contain the bearings for the shaft c of a printing-roller C, on which the stereotype or form of matter to be printed from is set up or produced in metal or such composition as is commonly used or suitable for printing type or forms. This matter should surround the whole circumference of the roller, but will generally consist of a series of repetitions of matter that will only occupy a small portion of the circumference, as may be understood by reference to Fig. 2.

Above the printing-roller C is an inking-roller D, which may be supplied with ink in any suitable manner. This inking-roller is represented as having its shaft d fitted to upright slots or housings b in the standards B, so that the weight of the said roller will produce the necessary pressure for inking the

printing-roller.

E is a yielding guide, which serves the purpose of guiding the spools F or circular bodies to be printed to the periphery of the printingroller. This guide is represented as consisting of a curved plate of resilient metal, the bottom of which is secured to the bed-plate A and facing the periphery of the printing-

roller C. A portion e of this plate conforms approximately, as shown in Fig. 1, to the roller and its normal position is such that the circular bodies to be printed, which I will here- 55 inafter term "spools," will in passing between the said roller and said plate slightly press back the said plate and be pressed by the said plate against the printing-surface of the roller C with force enough to take impressions there- 6c from. The upper part f of the said plate or guide E is flared outward from the roller C, as shown in Fig. 1, that the spools to be printed may enter easily between the said roller and the said plate or guide. Behind the bottom 65 of the said plate or guide there is an opening a, through which the spools may drop into a suitable receptacle after having been printed by passing between the said plate or guide and the roller C. The standards B B have 70 their inner faces parallel with the planes of revolution of the roller C and they are set at a distance apart equal to the length of the spools to be printed, so that they may serve as guides to keep the length of the spools in 75 proper relation to the printing-roller C. The said guides formed by the standards and the flaring upper portion f of the yielding guide E combine with the roller C to form a hopper, into which the spools may be fed without any 80 special care by a child or unskilled person. The spools placed in the hopper formed as above described descend by gravitation one after another between the yielding plate or or guide E and the printing-roller C, and are 85 caused to rotate on their own axes and at the same time to be carried downward by the contact with them of the printing-surface of the said roller; but they only remain between the said guide and roller long enough to be printed 90 and after that they drop to and through the opening a.

What we claim as our invention, and desire

to secure by Letters Patent, is—

1. The combination, with a rotary type- 95 roller, of a yielding guide facing the periphery of said roller for the purpose of conducting to said roller spools or other circular bodies to be printed and of pressing the said bodies against the printing-surface of said roller, 100 substantially as herein set forth.

2. The combination of a rotary type-roller,

a stand therefor, a yielding guide facing the | which flares outward from the roller to form periphery of said roller, and stationary guides | with the first-mentioned guides and the roller 5 guiding to the said roller spools or other cir- | fed to the said roller, substantially as herein cular bodies to be printed, substantially as set forth. herein set forth.

3. The combination, with a rotary typeroller and guides parallel with the planes of 10 rotation thereof, of a guide consisting of a plate of resilient metal facing the periphery of the said roller and the upper portion of

having their faces parallel with the planes; a hopper, into which spools or cylindrical 15 of revolution of said roller for the purpose of | bodies to be printed may be dropped to be

> INA C. DAVIS. JOHN BROWN.

Witnesses: FREDK. HAYNES, GEORGE BARRY.