

C. P. STEVENS.
Inking Roller.

No. 230,444.

Patented July 27, 1880.

Fig. 1.

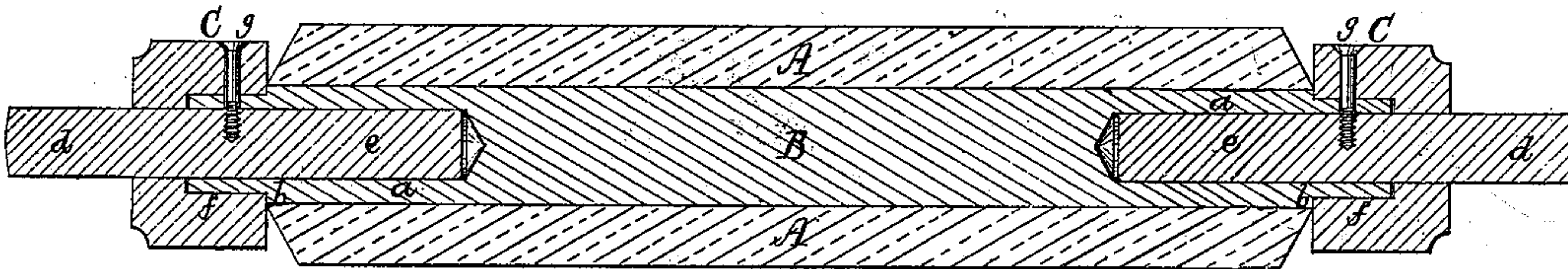


Fig. 3.



Fig. 2.

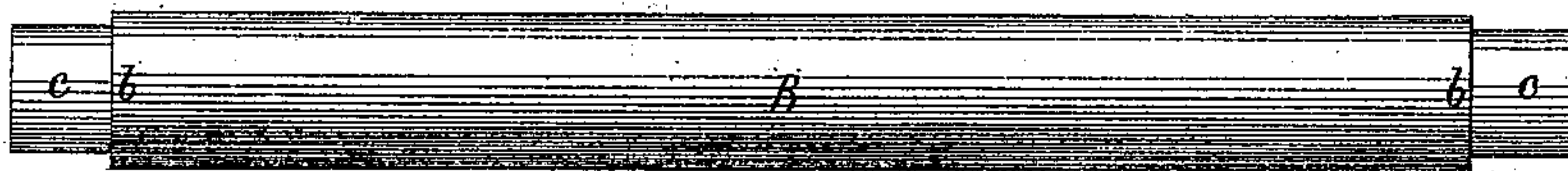


Fig. 4.

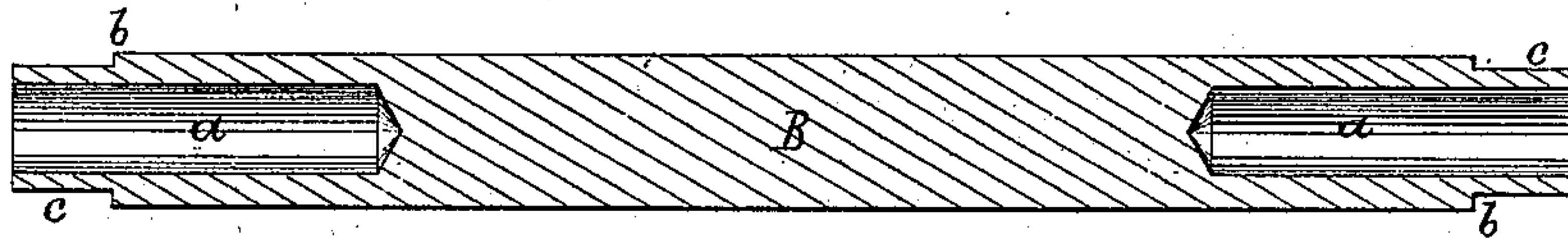


Fig. 5.

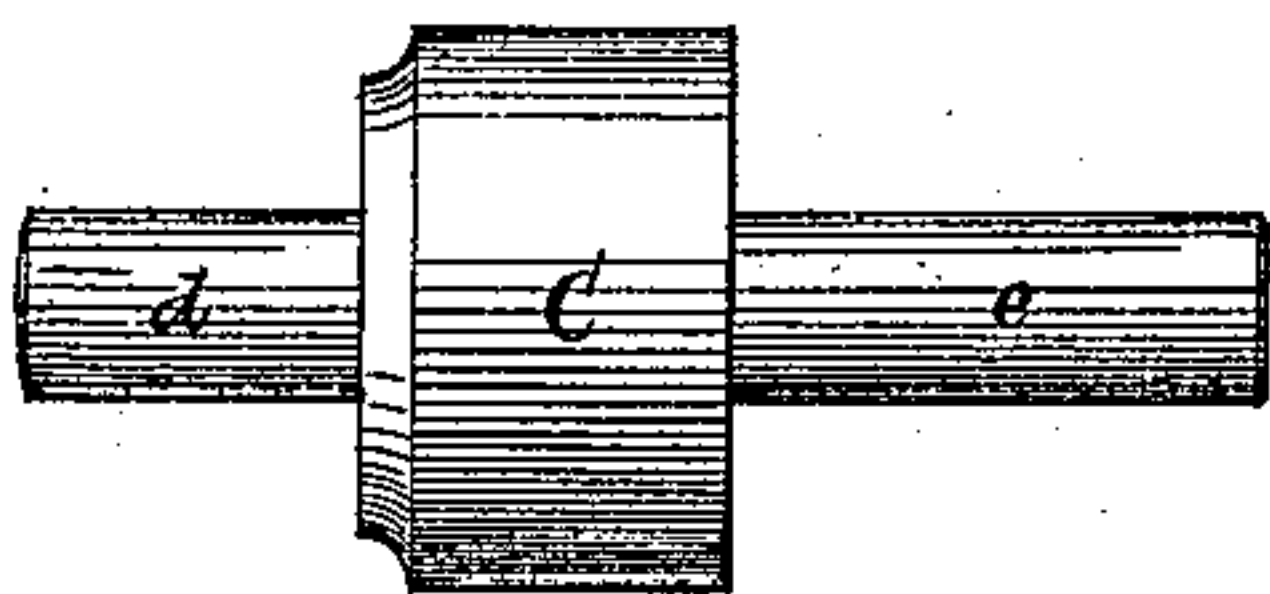


Fig. 6.

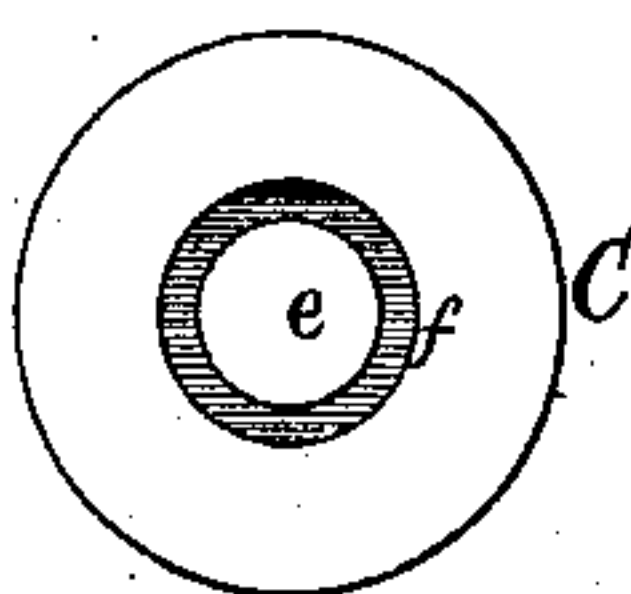
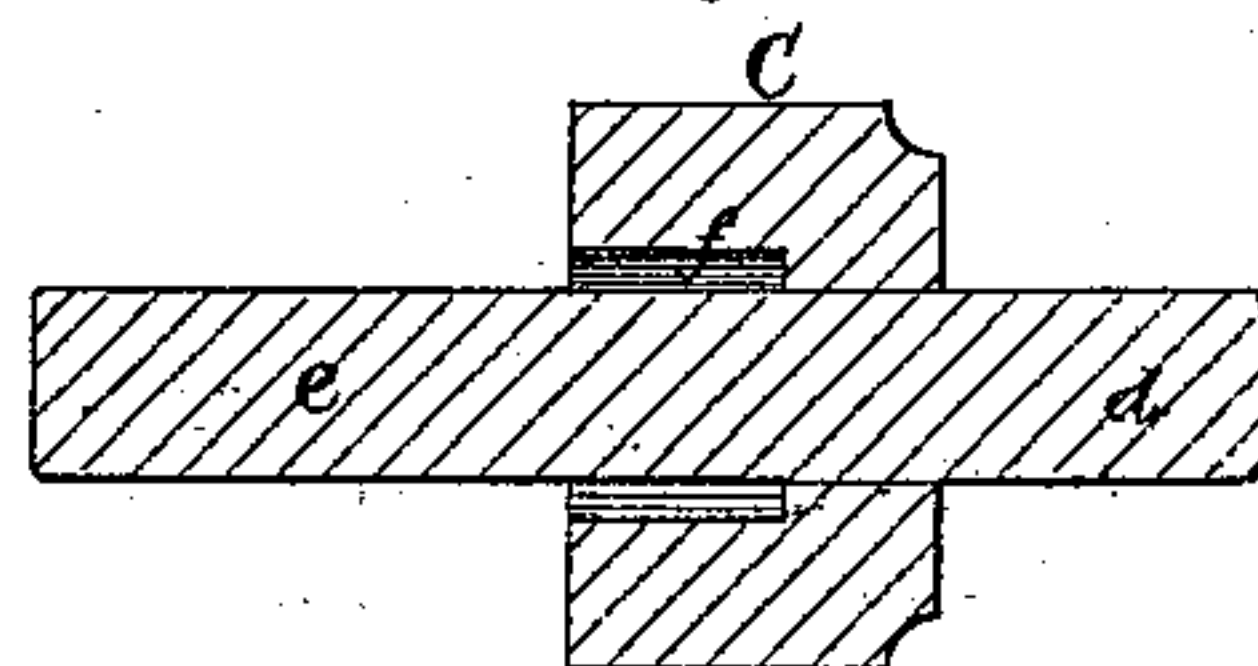


Fig. 7.



Witnesses:

S. N. Piper,
H. W. Lunt.

Inventor:

Charles P. Stevens,
by attorney,
R. H. Sedy.

UNITED STATES PATENT OFFICE.

CHARLES P. STEVENS, OF BOSTON, MASSACHUSETTS.

INKING-ROLLER.

SPECIFICATION forming part of Letters Patent No. 230,444, dated July 27, 1880.

Application filed January 23, 1880.

To all whom it may concern:

Be it known that I, CHARLES P. STEVENS, of Boston, of the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Inking-Rollers for Printing-Presses; and I do hereby declare the same to be described in the following specification and represented in the accompanying drawings, of which—

10 Figure 1 is a longitudinal section of one of my improved rollers; Fig. 2, a side view, Fig. 3 an end view, and Fig. 4 a longitudinal section, of the stock for receiving the elastic or composition coating constituting the body of the roller. Fig. 5 is a side view, Fig. 6 a rear-end view, and Fig. 7 a longitudinal section, of one of the bearing-wheels, with its stem and journal, and also with the socket for the reception of the tenon of the roller-stock.

20 Heretofore in constructing elastic rollers for inking the type of a printing press they have been composed of a single straight shaft and an elastic composition encompassing it, the shaft having two wheels or rollers fixed to it at the ends of the composition covering the shaft, and the wheels being preferably of metal.

30 On a roller of such character becoming worn, so as to require removal of the elastic body from the shaft and the substitution of a new and perfect body, a printer, when he may not have at hand means for accomplishing such substitution, is frequently compelled to send such roller to a distant locality to enable it to be effected, in which case, unless he may have another roller to put in the place of the first, a stoppage of the press will necessarily follow until the repair may have been made and the roller returned to him.

40 With one of my improved rollers the printer can have to one set of bearing-wheels two or more of the roller-stocks provided with elastic coverings, so that when one of them may need repair it may be separated from the wheels and a fresh one be put in place of it, and thus

stoppage of the press during the absence of the roller to be repaired may be prevented.

In carrying out my invention I employ for the reception of the elastic covering or body A of a printer's roller a spindle or stock, B, preferably of wood, and bored or made tubular for a short distance from each of its ends, as shown at *a a*, and also having a shoulder, *b*, and a cylindrical tenon, *c*, at each end, as represented.

55 Furthermore, to co-operate with the stock so made, I use two wheels, C C, each having a journal, *d*, projecting from one end of it, and a cylindrical or other proper shaped stem, *e*, extending from the opposite end, and I make in each wheel and around the stem, as shown, an annular socket, *f*, to receive the tenon projecting from the roller-stock. A screw, *g*, going through the wheel and the said socket and tenon, serves, when the stem is in place in the stock and the tenon is in the socket, to confine the wheel and stem to the stock, it being understood that the stem and journal are arranged in one straight line, and each is concentric with the roller.

70 I would observe that the stem, wheel, and journal are intended to be of iron or other metal, and that a single pair of such wheels provided with stems and sockets, as described, will suffice for use with any one of a number of the elastic rollers having tenons and socketed stocks, as set forth.

I claim as my invention as follows:

75 The combination of the printing-roller-stock provided with the end sockets, shoulders, and tenons with the bearing-wheels having the stems and journals and the annular sockets, the latter being for reception of the tenons, and all being applied and for use substantially as explained.

CHARLES P. STEVENS.

Witnesses:

R. H. EDDY,
W. W. LUNT.