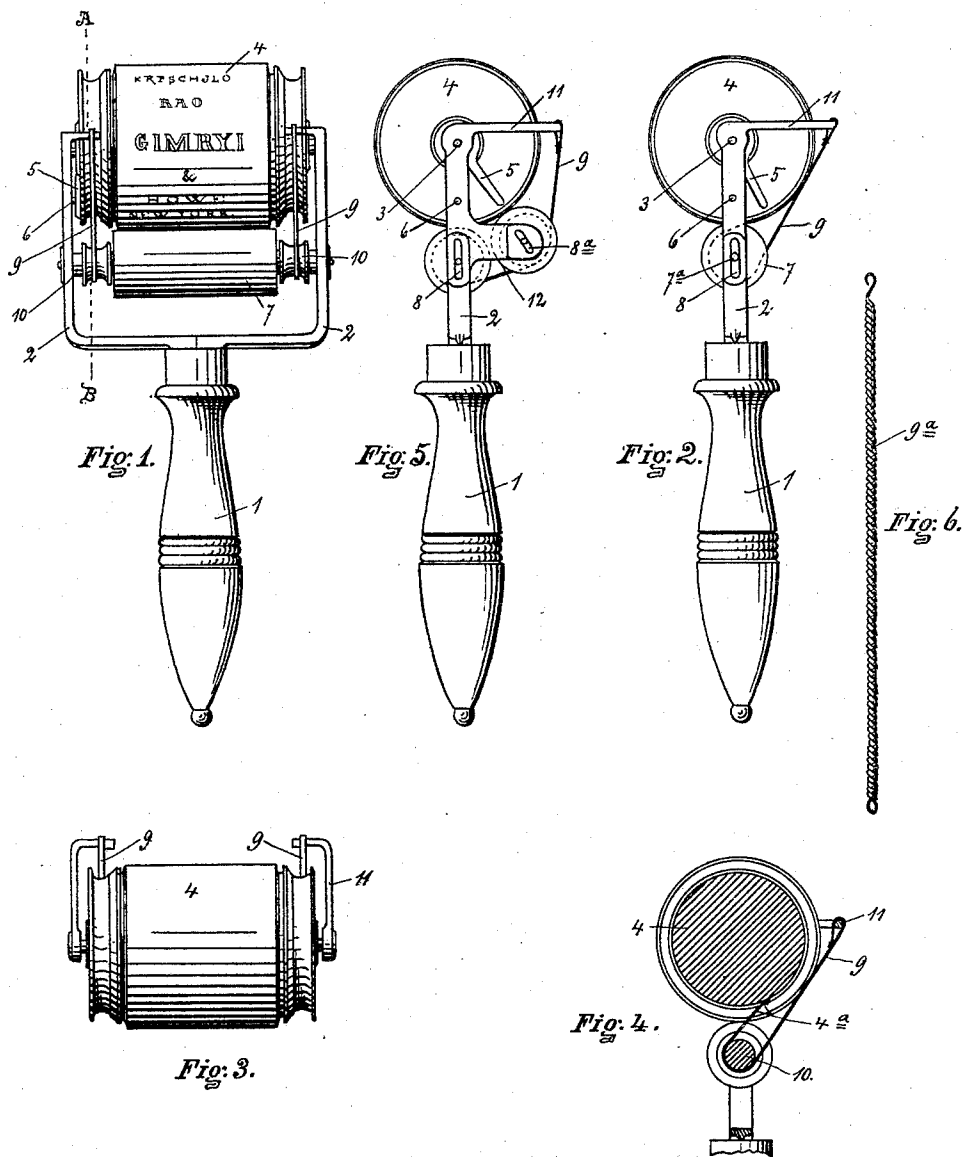


(No Model.)

G. H. ALLEN.
HAND PRINTING ROLLER.

No. 460,173.

Patented Sept. 29, 1891.



WITNESSES.

Rich. A. George.

M. Robinson

INVENTOR.

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UNITED STATES PATENT OFFICE.

GEORGE H. ALLEN, OF CLINTON, NEW YORK.

HAND PRINTING-ROLLER.

SPECIFICATION forming part of Letters Patent No. 460,173, dated September 29, 1891.

Application filed January 26, 1891. Serial No. 379,060. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. ALLEN, of Clinton, in the county of Oneida and State of New York, have invented certain new and useful Improvements in Hand Printing-Rollers; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form part of this specification.

My invention relates to an improvement in hand printing-rollers.

The particular object of this invention consists in providing a hand-printing roller of simple and effective construction, and which is cheaply made and easily repaired.

In the drawings which accompany and form part of this specification, and in which similar figures of reference refer to corresponding parts in the several views, Figure 1 shows a top view of the hand-printer. Fig. 2 shows a side elevation of the same. Fig. 3 shows the front end elevation of the device. Fig. 4 shows a section taken on line A B of Fig. 1. Fig. 5 shows a modified form of construction, in which two inking-rollers are used. Fig. 6 shows a spring, which may be substituted in this device.

In constructing the device a handle 1 is provided having projecting arms 2 2, which is journaled at 3, the printing-roller 4, which is provided with suitable printing-surface. On printing-roller 4 is provided a stop 5, adapted to engage stationary stop 6 on the handle-arm. An inking-roller 7 is provided mounted on shaft 7^a in slotted bearings 8 in the handle-arms 2. For retracting the printing-roller to its normal position after use and also pressing the inking roller or rollers upon the printing-rollers, I provide an elastic band 9, connected to the printing-roller 4 at 4^a, and passing thence around a pulley 10 on the shaft 7^a of the inking-roller, and to and attached to upright arms 11, formed or secured upon the handle.

In the case of the construction shown in

Fig. 5, where an additional inking-roller is used, the frame is provided with upward projections 12, and the roller is mounted in slotted bearings 8^a.

The operation of the device is substantially as follows: The printing-roller 4 is held in its normal position, with stop 5 engaging stop 6 by the tension of bands 9. When the roller 4 is brought into contact with the surface which it is desired to print, it is rolled forward until it has made a revolution, or nearly so, and upon being raised the bands 9 immediately retract the roller 4 to its starting position, and at the same time press the inking-roller upon the printing-roller.

The spring 9^a (shown in Fig. 6) may be used instead of bands 9.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination, in a hand-printer, of the printing-roller, the forked handle therefor, the inking-roller and elastic bands or springs secured to the printing-roller and passing around the shaft of the inking-roller and secured to the handle, substantially as set forth.

2. The combination, in a hand-printer, of the forked handle, the printing-roller journaled in the fork of the handle, the inking-roller journaled in slotted bearings, and the elastic band or spring secured to the printing-roller and passing around the shaft of inking-roller and secured to uprights on the handle, substantially as set forth.

3. The combination, in a hand-printer, of the forked handle, the printing-roller journaled in the fork of the handle, the inking-roller journaled in slotted bearings, the elastic bands or springs secured at one end to the printing-roller and at the opposite end to uprights above the printing-roller and passing around pulleys on the inking-roller shaft, substantially as set forth.

In witness whereof I have affixed my signature in presence of two witnesses.

GEORGE H. ALLEN.

Witnesses:

J. THOS. JONES,
M. E. ROBINSON.