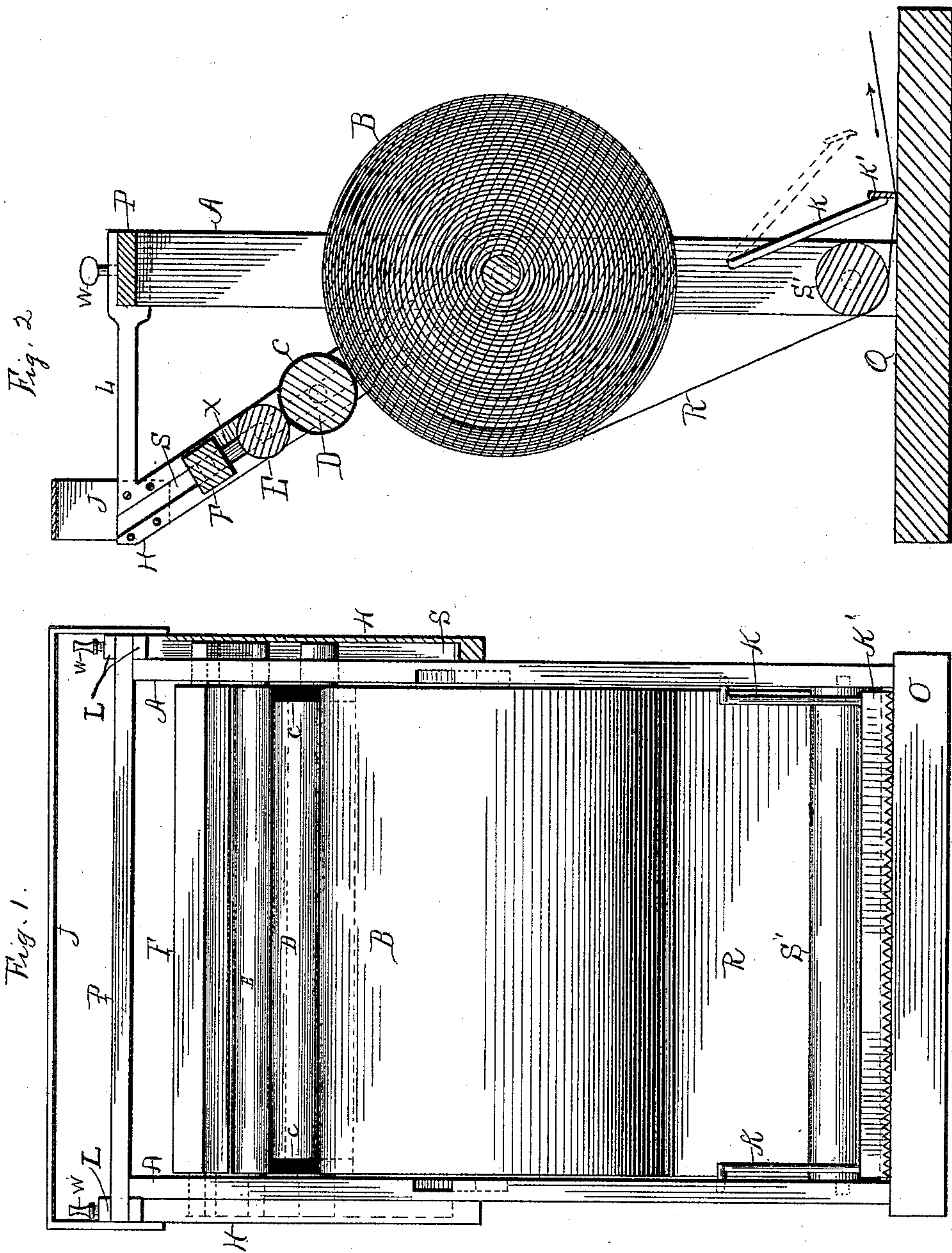


(No Model.)

G. C. WESTERVELT.
PRINTING ATTACHMENT FOR PAPER ROLL HOLDERS.
No. 427,649. Patented May 13, 1890.



Witnesses
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GEORGE C. WESTERVELT, OF MARSEILLES, ILLINOIS.

PRINTING ATTACHMENT FOR PAPER-ROLL HOLDERS.

SPECIFICATION forming part of Letters Patent No. 427,649, dated May 13, 1890.

Application filed February 1, 1890. Serial No. 338,908. (No model.)

To all whom it may concern:

Be it known that I, GEORGE C. WESTERVELT, a citizen of the United States of America, residing at Marseilles, in the county of La Salle and State of Illinois, have invented certain new and useful Improvements in Printing Attachments for Paper-Roll Holders, of which the following is a specification, reference being had therein to the accompanying drawings and the letters of reference thereon, forming a part of this specification, in which—

Figure 1 is a side elevation, and Fig. 2 is a central vertical section, of the machine.

This invention relates to certain improvements in a printing attachment for paper-roll holders designed to be detachably applied to the frame of the paper-roll holder for printing the paper roll as the paper is unwound therefrom for use.

Referring to the drawings, A represents two upright posts set in a base O, and connected at their upper ends by the cross-bar P to give them strength. These posts have arranged opposite each other at about their center boxes for detachably supporting the journals of the shaft of the paper roll B.

S' is a roll journaled at each end in said posts at a point near their base below the paper roll, and K is the paper-cutter frame, pivotally arranged between said posts near their lower ends in such manner that its serrated knife K' may rest on base O when desired to cut paper and swing outward, as shown in the broken lines, when the paper is being drawn through and off the roll, the paper passing from the roll B, under roll S', and under the knife K' in the direction shown by the arrow.

Attached to cross-bar P is a detachable frame consisting of the arms L, connected at their inner ends to the diagonally-arranged bars H and connected with each other across the top by means of the bar J, bearing the printing-roll D, ink-roll E, and weight-bar F, the bars H being provided with slot-boxes S on their sides facing each other for the reception in said boxes S of the journals of said rolls and bar, so they may move in said slot-boxes to follow up the roll B as it grows smaller.

Said boxes are open at their upper ends, so

said bar and rolls may be removed therefrom when desired for substituting others, and are closed at their lower ends to prevent the rolls from falling out at that end. The bars H are arranged at an angle with arms L, and so their lower ends extend toward the paper-roll axle, so that the printing-roll D can follow up the paper roll as it grows small and print so long as there is any paper on the roll-shaft.

The slot-boxes S permit the printing-roll to have independent vertical movement at either end, so it will engage the paper roll at all times, even if one end should be larger than the other or irregular in form, which would not be the case if the journals of the printing-roll were in boxes not permitting such movement.

The ink is applied to ink-roller E, which engages and rolls on the printing-roller D.

The weight-bar F furnishes sufficient weight to the ink and printing rollers to cause the printing to be done plainly. The weight-bar F is held from contact with the ink-roll by means of the blocks X, placed between their journals, and the journals of the weight-bar are square for the purpose of preventing its unnecessary rotation.

The outer ends of arms L are shown as forked for permitting them to fork over the cross-bar P of the paper-roll frame, and are provided with the thumb-screw W for detachably connecting the printing attachment to the paper-roll frame, and so the printing attachment may be attached to any similarly-constructed paper-roll frame.

By means of weighting the printing-roll the same pressure is always brought to bear upon it without regard to the size of the paper roll, which is not the case where the printing-roll is held engaged by means of springs.

C are rubber bands placed one on either end of the printing-roll for engagement with the paper roll, and insure its contact therewith at all times and cause the printing-roll to rotate continuously, as the type on the roll might not be arranged at all times to engage the paper roll and cause it to rotate evenly and continuously.

When it is not desired to use the printing

attachment, it can be detached and leave the paper roll free to be used in the ordinary manner.

Having thus described my invention, what I
5 claim as new, and desire to secure by Letters Patent, is as follows, to wit:

1. The combination, with the frame A P and
the paper-roll shaft, of the detachable frame
L H J, having the slot-boxes S and thumb-
10 screws W W, the printing-roll D, ink-roll E,
weight-bar F, and blocks X, substantially as
and for the purpose set forth.

2. In a paper-roll holder, and in combination
with its frame, a detachable frame, a printing-
roll, ink-roll, and weight-bar boxed and hav- 15
ing their journals in said detachable frame,
arranged in such manner as to follow up the
paper roll by their own gravity, substantially
as and for the purpose set forth.

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Witnesses:

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