(No Model.) 2 Sheets—Sheet 1.

J. T. KING.

INK DISTRIBUTING APPARATUS FOR PRINTING MACHINES.

No. 400,222. Patented Mar. 26, 1889.

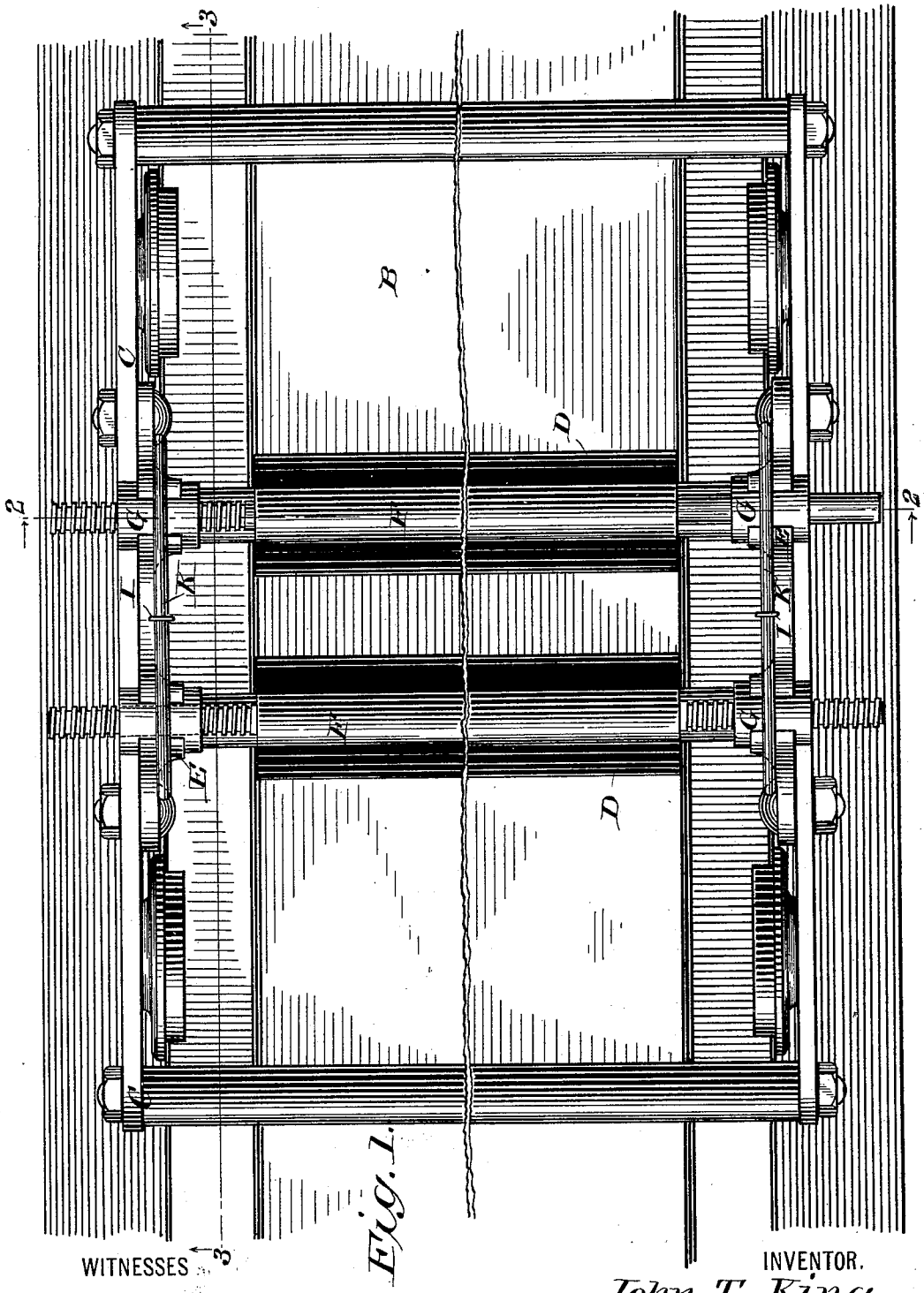


Fig. 1.

WITNESSES

A. C. Newman,
E. S. Newman.

INVENTOR.

John T. King,
By his Attorney
Marcus S. Hopkins.

N. PETERS. Photo-Lithographer, Washington, D. C.

(No Model.) 2 Sheets—Sheet 2.

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Fig. 2.

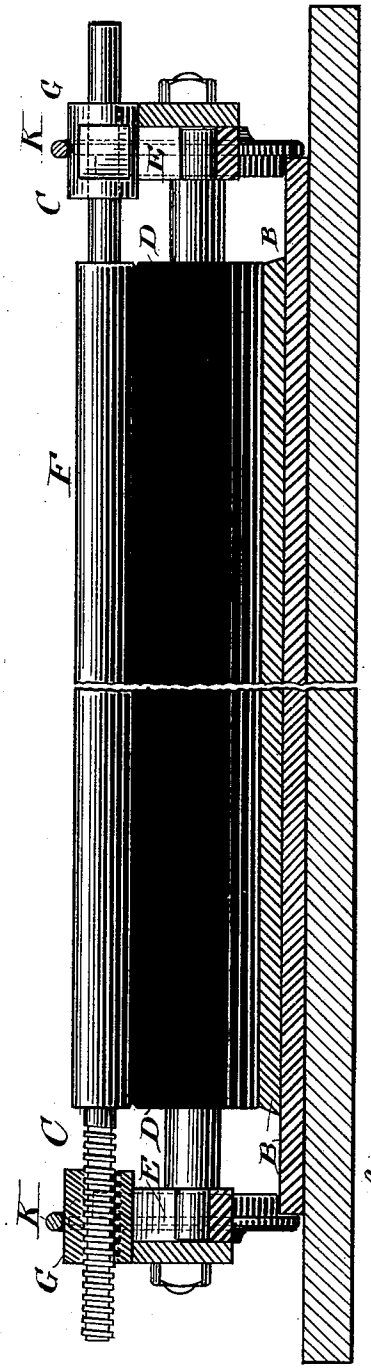
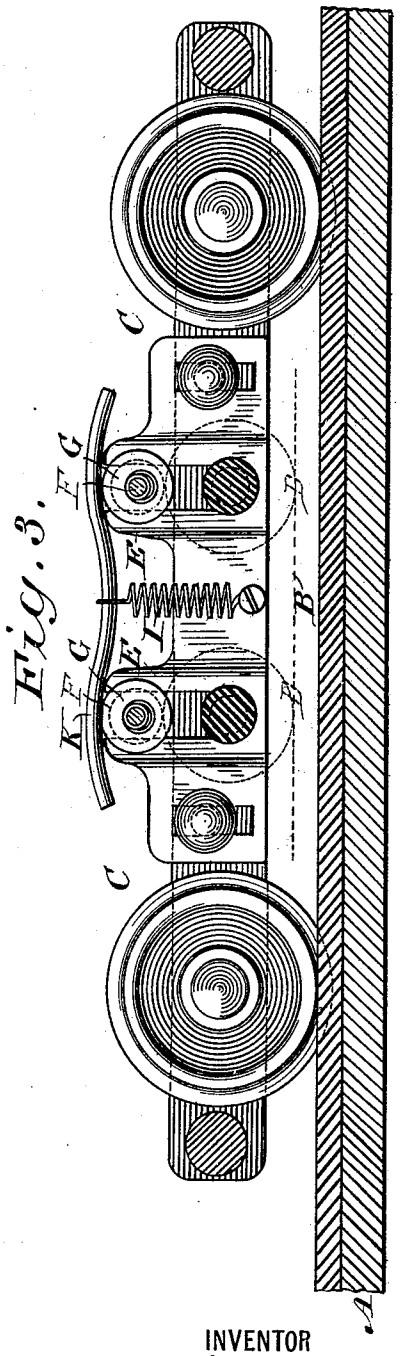


Fig. 3.



WITNESSES

H. C. Newman,
E. S. Newman.

INVENTOR

John T. King,
By his Attorney
Marcus S. Hopkins.

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

JOHN T. KING, OF MADISON, WISCONSIN.

INK-DISTRIBUTING APPARATUS FOR PRINTING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 400,222, dated March 26, 1889.

Application filed April 21, 1888. Serial No. 271,445. (No model.)

To all whom it may concern:

Be it known that I, JOHN T. KING, of Madison, in the county of Dane and State of Wisconsin, have invented certain new and useful Improvements in Ink-Distributing Apparatus for Printing-Machines, of which the following is a specification, reference being had to the accompanying drawings, in which—

Figure 1 is a plan view; Fig. 2, a cross-section on the line 2 2 of Fig. 1, and Fig. 3 a longitudinal section on the line 3 3 of Fig. 1.

My improvements consist in a peculiar application of slip-nuts, yokes, and springs in connection with a composition inking-roller and a grinder or screw-vibrator roller mounted upon a car, so as to move back and forth over a stationary ink-disk.

Referring to the letters upon the drawings, A indicates a part of a press-frame, B an inking-disk, and C a car traveling on wheels over the disk in such a way that the composition rollers D, of which two are shown, may come in contact with the inking-disk and be rotated first in one direction and then in the other.

E indicates slotted posts secured to the car-frame and adapted to receive the shafts of the composition rollers, and above them the shafts of the screw vibrators F.

G indicates slip-nuts cut away on their sides, so as to fit into the slots H of the post and be adapted to be raised and lowered.

I indicates springs, and K yokes, to which the upper ends of the springs are attached, the lower ends being secured to the car-frame in any ordinary way. The yokes bear upon the slip-nuts by the force of the springs and tend to hold them down, so that the screw vibrators will press with sufficient force upon the upper peripheries of the composition rollers. The slip-nuts are threaded to correspond with the threads upon the ends of the shafts of the screw vibrators, and ordinarily the nuts engage by the upper part of their threads with the screw-threaded ends of the shafts; but in case the longitudinal movement of the screw vibrators is such as to bring them into contact with the nuts then the springs will yield and release the slip-nuts from engagement with the threads of the shafts and permit the shafts to continue their rotation, although their longitudinal movement will cease until the motion of the car is reversed. The springs and yokes permit the slight elevation of the slip-nuts when necessary to disengage the nuts from the screw-threads of the shaft. The result is that I need employ no gearing to connect the shafts of the rollers, and there is no danger of accidents from sudden stoppage of the rotation of the screw vibrators.

I do not claim in this application the combination of a yielding slip-nut with a threaded shaft and a screw vibrator, because I have covered that in another application, Serial No. 270,702, filed April 14, 1888; but

What I claim here, and desire to secure by Letters Patent of the United States, is—

The combination, with a car for an ink-distributing apparatus, of the screw vibrators, the slip-nuts, the springs I, and the yokes K, arranged and operating substantially as set forth.

In testimony of all which I have hereunto subscribed my name.

JOHN T. KING.

Witnesses:
W. G. WALKER,
B. M. BRUCE.