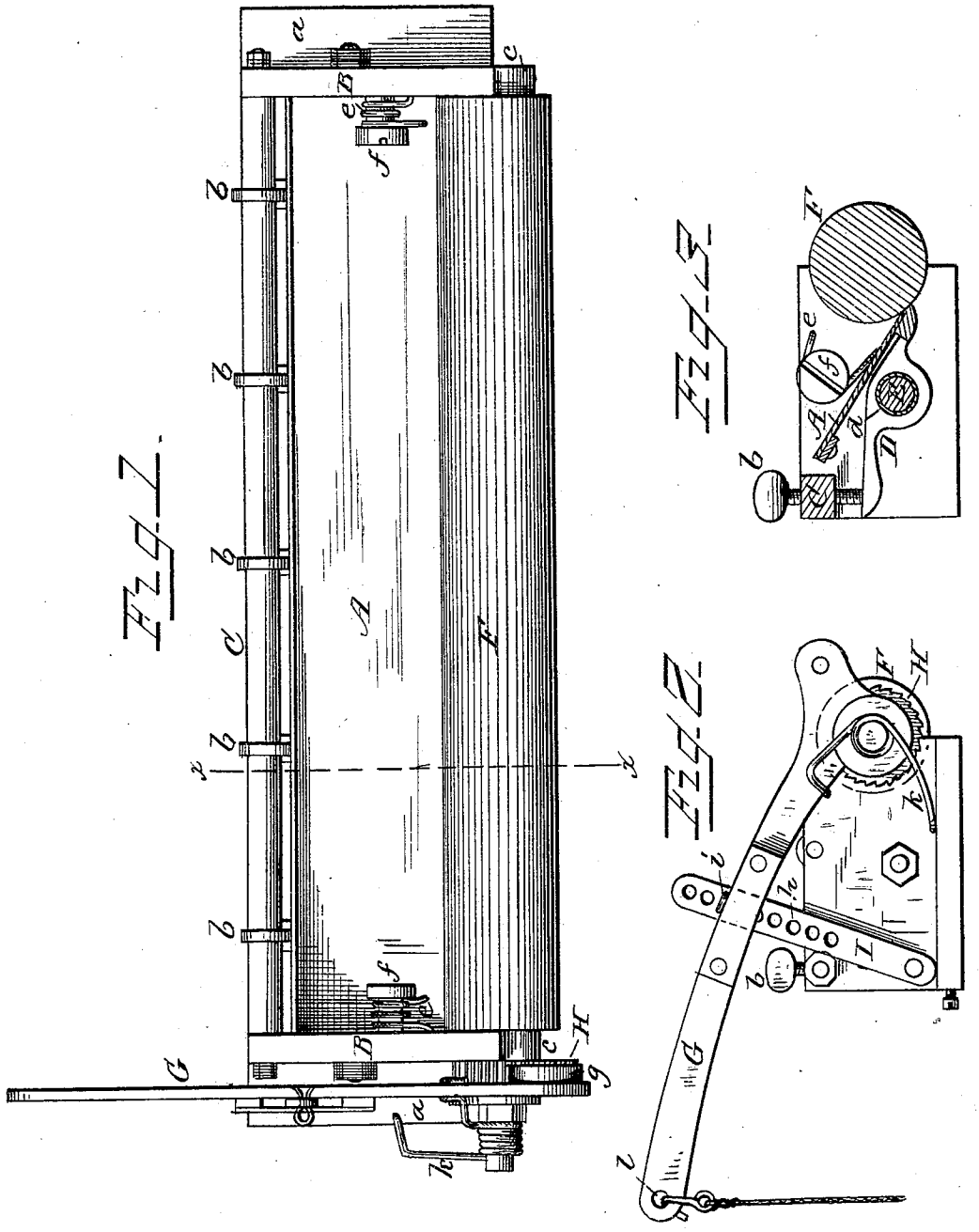
(No Model.)

J. K. BITTENBENDER.

INKING APPARATUS.

No. 270,886. Patented Jan. 23, 1883.



WITNESSES

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JOHN K. BITTENBENDER, OF BLOOMSBURG, PENNSYLVANIA.

INKING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 270,886, dated January 23, 1883.

Application filed July 12, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOHN K. BITTENBENDER, a citizen of the United States, residing at Bloomsburg, in the county of Columbia and State of Pennsylvania, have invented certain new and useful Improvements in Inking Apparatus; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a top plan of my invention; Fig. 2, an end view; and Fig. 3, a sectional view taken through *x x*, Fig. 1.

This invention relates to fountains for containing ink for printing-presses and automatically feeding the same to the press-rollers, the objects of the present invention being to provide a device of this character that will be simple in its construction, effective in its operation, and readily attached to any description of presses, the quantity of ink necessary for the press-rollers being easily regulated and controlled by the operator.

The invention consists in the employment of an inclined plate pivoted at its rear end to upright standards, in which is journaled a roller for receiving and conveying the ink to the press-rollers, the ink being placed upon the said plate and its feed to the conveying-roller regulated by means of levers, which bear against the under side of the inclined plate, near its front end, and are adjusted by means of thumb-screws passing through a bar secured between the upright standards, at the rear end of the said inclined plate.

The invention further consists in the employment of a lever and pawl, engaging with a ratchet-wheel to operate the ink-conveying roller, the stroke of the lever being regulated by means of an upright post having graduations thereon, and the said lever, after its stroke has been effected, is forced back by a spring to cause the pawl to again engage with the ratchet-wheel, as illustrated in the drawings, and hereinafter more fully described.

In the accompanying drawings, A represents an inclined plate, upon which the ink is placed, pivoted at its rear end to upright standards B, formed with projections *a* to form a base for attaching the fountain to the printing-press.

Between the standards B, in the rear of the inclined plate A, is a bar, C, in which are fitted thumb-screws *b*, which bear against levers D working upon a rod, E, journaled in the upright standards B, at or near their centers, said levers bearing against the inclined plate A, to regulate the feed of the ink to the conveying-roller F, revolving in journal-bearings *c*, cast with the upright standards at their front ends. Suitable stops, *d*, are placed between the levers D to prevent them from becoming laterally displaced, and springs *e*, of wire, coiled around screws *f*, one end being secured in the upright standards B and their free ends bearing against the top surface of the inclined plate A, serve to prevent the same from coming in too close contact with the ink-conveying roller F when not acted on by the regulating-levers D.

The ink is conveyed to the press-rollers of the printing-press by means of the conveying-roller F, of suitable construction, being operated by means of a lever, G, carrying a pawl, *g*, which engages with a ratchet-wheel, H, upon one end of the said conveying-roller, the stroke of the lever and extent of revolution of the conveying-roller being regulated by an upright post, I, having graduations *h*, in which is placed a stop, *i*, and against which works the said lever. After the lever has been brought down, causing the conveying-roller to make a partial revolution to supply the ink to the press-rollers, it is automatically forced back by a spring, *k*, one end of which is secured to the projection *a* upon one of the standards B, and then coiled around the journal of the conveying-roller F, with its free end terminating in a loop, in which rests the said lever G. The lever is connected to the operating mechanism of the press by a cord secured to a hook, which connects with the eye *l* in the end of the lever G, and when sufficient ink has been conveyed to the press-rollers, or for any other cause it is not required to operate the conveying-roller, the hook is removed from the eye in the lever, and the press-rollers may come in contact with the conveying-roller without taking sufficient ink to give the impression too deep a color or too much ink, the ink only being supplied to

the press-rollers from the fountain when the conveying-roller is operated by the lever and ratchet.

This fountain is light in its construction and readily adjusted to any description of printing-press, and its several parts, being removable, admits of its being quickly and thoroughly cleansed when changing the ink from one color to another.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In an ink-fountain for printing-presses, the combination of the inclined movable plate A, upright standards B, springs *e*, and screws *f*, with the bar C, thumb-screws *b*, levers D, stops *d*, and rod E, substantially as and for the purpose set forth.

2. In an ink-fountain for printing-presses, the upright standards B, having journal-bearings *c* and projections *a*, in combination with the inclined adjustable plate A, ink-conveying roller F, ratchet-wheel H, ratchet-lever G, and upright graduated post I, substantially as specified.

3. In an ink-fountain for printing-presses, the operating-lever G, provided with a pawl, *g*, for engaging with the ratchet-wheel H, in combination with the upright graduated post I and spring *k*, substantially as described.

4. In a fountain for printing-presses, the inclined plate A, journaled to the upright standards B, and regulated by the levers D, working upon the rod E, and the thumb-screws *b*, passing through a bar, C, in combination with an ink-conveying roller, F, journaled in bearings *c* upon the standards B, and operated by the lever G and pawl *g*, engaging with a ratchet-wheel, H, said lever being controlled by a spring, *k*, and upright graduated post I, substantially as shown, and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN K. BITTENBENDER.

Witnesses:
GEO. E. ELWELL,
PAUL E. WIRT.