

(No Model.)

2 Sheets—Sheet 1.

J. M. FREY.

PRINTING ATTACHMENT FOR PAPER ROLLS.

No. 494,675.

Patented Apr. 4, 1893.

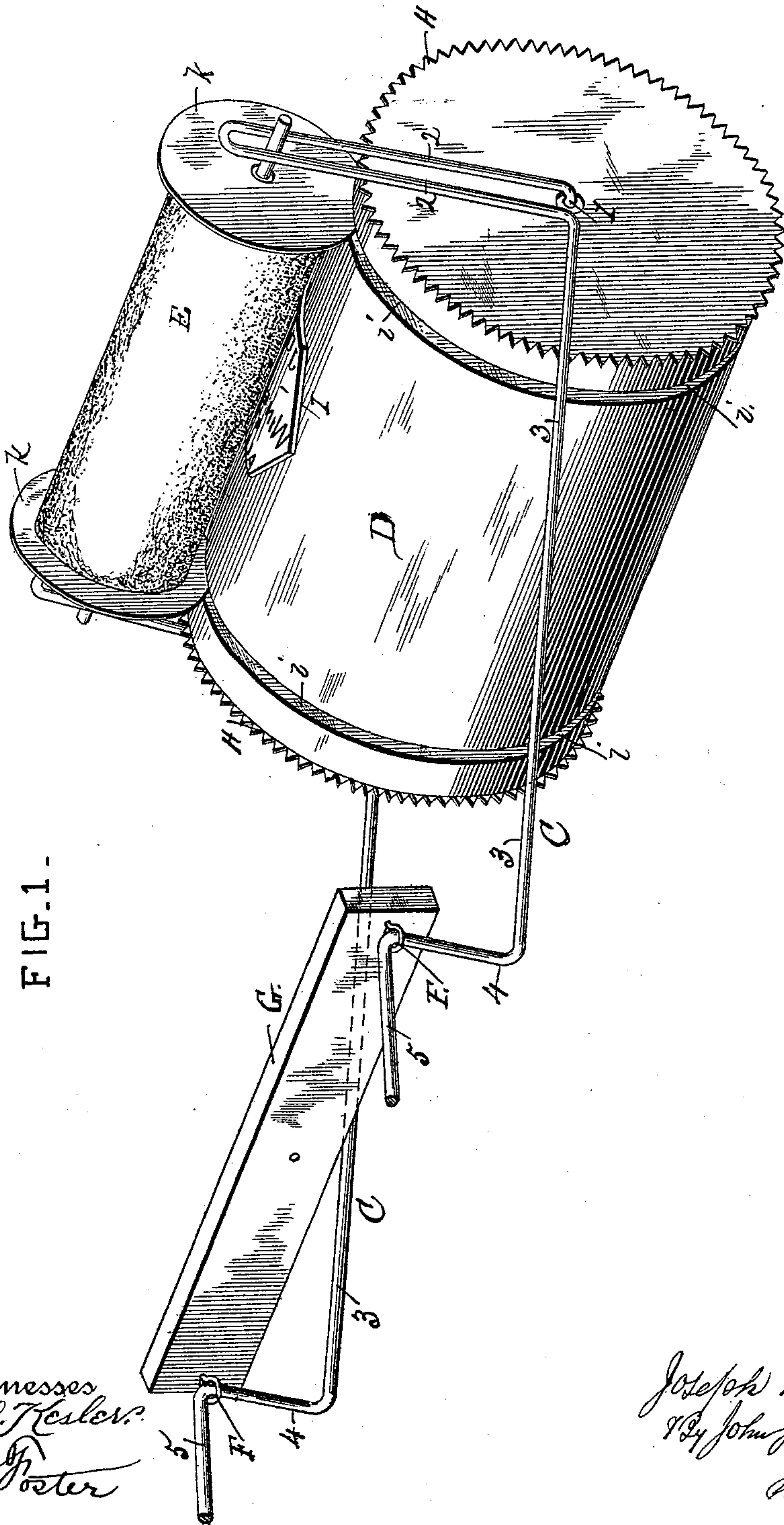


FIG. 1.

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(No Model.)

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FIG. 2.

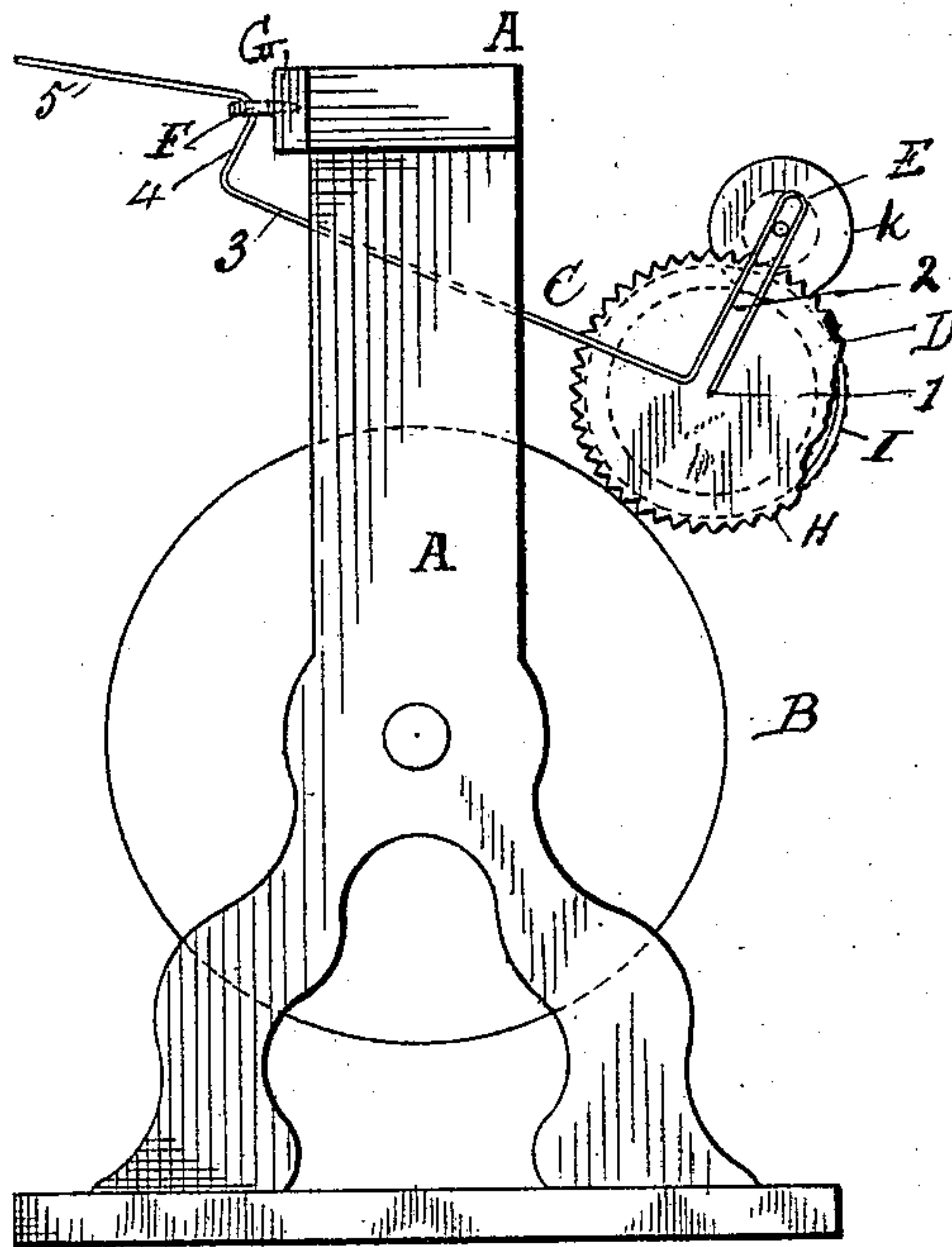
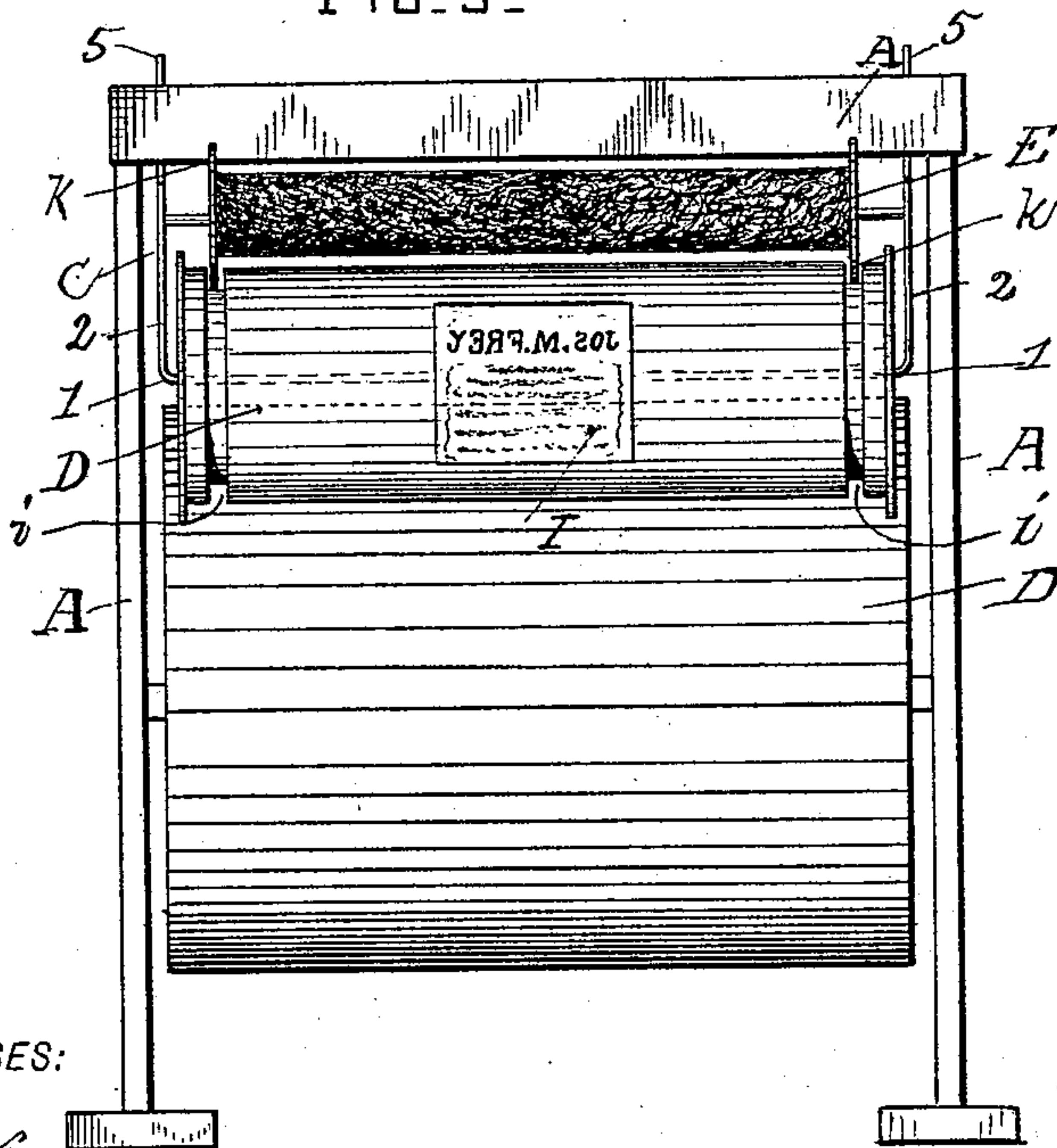


FIG. 3.



WITNESSES:

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JOSEPH M. FREY, OF AURORA, ILLINOIS.

PRINTING ATTACHMENT FOR PAPER-ROLLS.

SPECIFICATION forming part of Letters Patent No. 494,675, dated April 4, 1893.

Application filed November 7, 1892. Serial No. 451,270. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH M. FREY, of Aurora, in the county of Kane and State of Illinois, have invented certain new and useful
5 Improvements in Printing Attachments for Paper-Rolls; 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
10 make and use the same, reference being had to the accompanying drawings, and to letters and figures of reference marked thereon, which form a part of this specification.

My invention has relation to the printing
15 of advertisements, &c., upon wrapping paper as delivered from rolls such as merchants, retailers, druggists, &c., are nowadays accustomed to use for wrapping up parcels for delivery at the time of sale. Such rolls are
20 usually wound on a central rod or bar having journals supported in an upright frame.

The object of my invention is to furnish an efficient but cheap attachment adapted to be readily applied to this class of roll-frames,
25 and whereby any desired predetermined matter may be automatically printed upon the paper in the act of drawing it off from the roll to furnish a wrapper.

The nature of my invention will clearly appear from the following description:

In the drawings Figure 1 represents in perspective the attachment ready for application to existing paper-roll frames; Fig. 2, a side view of the same applied to such a frame;
35 Fig. 3, a front view of Fig. 2, showing the special construction of the printing roll and of the inking roller, and whereby the revolution of the printing roller is positively effected, and whereby the surface of the inking roller
40 is positively kept out of contact with any part of the printing roller except the type thereon; and whereby also undue endwise shifting of the inking roller is prevented by the agency of the printing roller.

45 A indicates a frame or supporting stand in which the roll B of paper is journaled in any well known manner, so that the pulling of the free end of the paper shall turn the roll and deliver the paper; and which may have the
50 customary straight edge or blade for tearing off the paper neatly. As these parts are of

known construction, they need not be further described.

To such or any similar frame my invention is applicable. It is made as follows: Two
55 hangers C of wire are each similarly bent substantially to the shape shown in the drawings, so that each has a horizontal portion 1, turned inwardly or toward a corresponding
60 portion of the other hanger, to serve as journals for the printing roller by projecting into axial holes in such roller D; a double or hook
portion 2—2, within which the journals of the flanged inking roller E are held and so that
65 this roller may rise and fall a short distance; a long portion 3 serving as a lever, having its fulcrum in an eye bolt F secured to a strip G of wood, which may be nailed or screwed to
70 the top of frame A; an upwardly bent portion 4 held in the eye of such bolt, and an outwardly bent portion 5 serving as a lifting handle. These eye-bolts, into the eyes of which the hangers are severally inserted
loosely as shown, act as a fulcrum and serve to hold the device in position while allowing
75 perfect freedom of action in practice.

The roller D, I provide at or near each end with a circle of teeth H to insure a positive rotary motion when the paper is pulled off
80 for wrapping purposes, thus avoiding any slippage or accidental failure of the roller to revolve, and a consequent failure to print.

The type or printing plate I projects beyond the periphery of the roller D. This roller has
85 also two annular grooves *i i*, one near each end, to receive the flanges *k k* at the ends of roller E. The depth of these grooves relatively to the distance the flanges project beyond the periphery of roll E is such that the
90 peripheries of the two rolls cannot contact or touch, so that the surface of roll D cannot become smeared or defaced with ink which would also smirch or render the wrapping paper useless; the flanges, however, allow the
95 type to receive ink by coming in contact with roller E. The rolls D and E, I prefer to weight by filling them with lead to insure the proper contact of roll D with the paper, and of roll E with the type.

Rubber type may be used, or the roll may
100 be made of type-metal if desired. Cylinder or roll D may be covered in part or altogether

with reading matter type. When roller D revolves, it causes roller E to revolve.

As the paper is used up and the roll B becomes smaller, the eye-bolts F permit the wire arms C and rolls D and E to fall lower accordingly and keep in working condition; and if ever found necessary, the strip G may be placed lower on stand A.

If it be desired to unroll any length, however much, of the paper, without printing it, it is only necessary to press down on the handle ends 1—1 of the hangers in order to raise the printing roll off the paper.

The simplicity and efficiency of this attachment will be apparent. All springs, complex devices, and such as are likely to get out of order, are avoided, and the hangers (each being a single piece of wire) do the duty of journals and of slot bearings, levers and handles.

I claim as an attachment for stands for delivering wrapping paper from rolls—

1. A pair of hangers C, made of wire and

having each the bent parts 1, 2, adapted for supporting a printing and an inking roller, the lever portion 3, the bent part 4, and handle 5, combined with eye-bolts and strip G, all substantially as set forth.

2. In combination with the wire hangers C having the described bends 1, 2, 4, 5, the eye-bolts F, strip G, and a printing roll journaled on the ends of the wires, and an inking roll held by its journal within the doubled part of the wires.

3. In combination with a stand for supporting a roll of paper, an attachment consisting of wires C bent as described, fulcrumed in eye-bolts fastened to a strip on the stand, and having at one end a handle and at the other end carrying a printing roller and an inking roller.

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