

(No Model.)

2 Sheets—Sheet 1

C. C. JOHNSON.

PAPER HOLDER AND CUTTER.

No. 316,368

Patented Apr. 21, 1885.

FIG. 1.

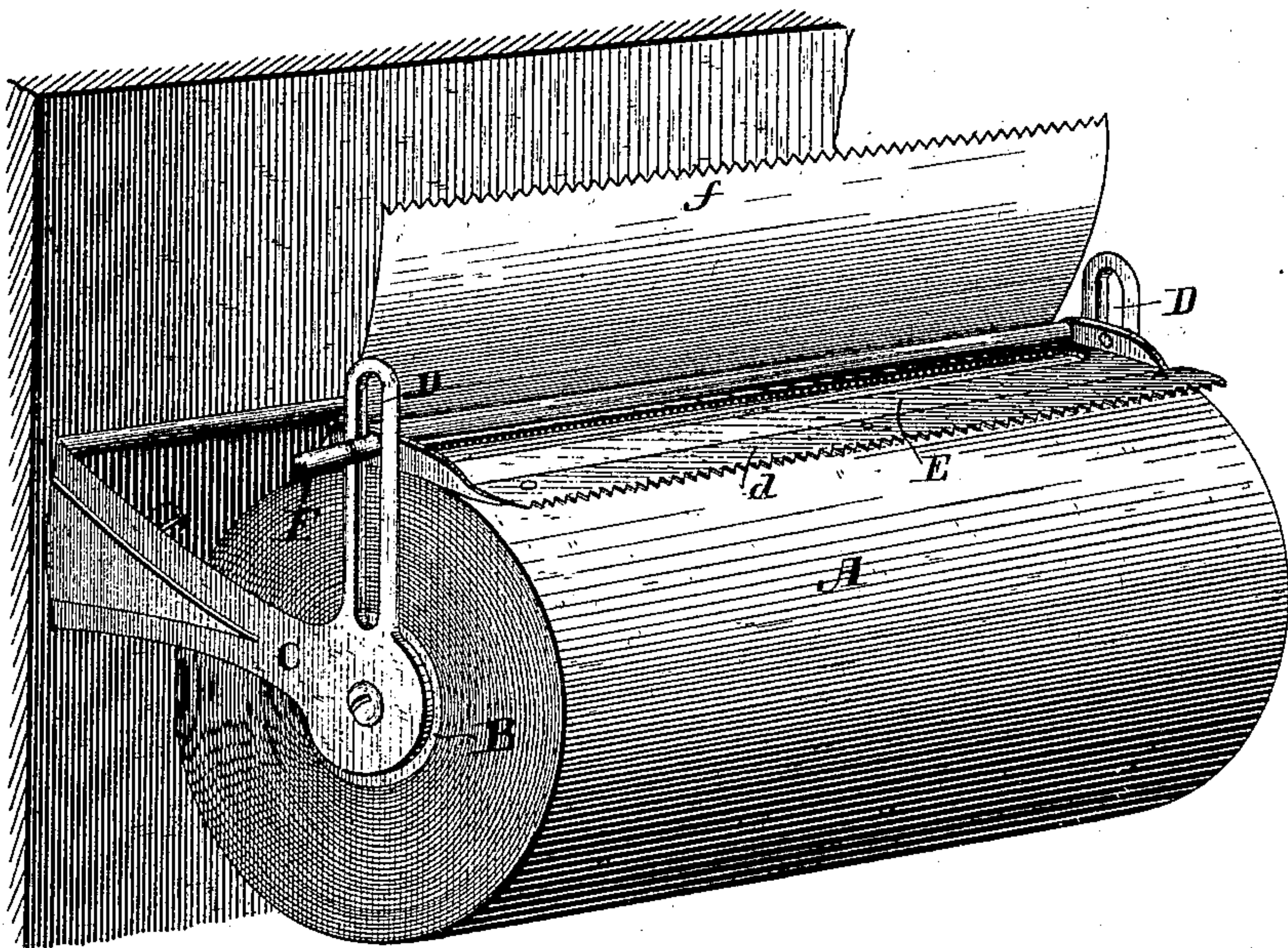


FIG. 2.

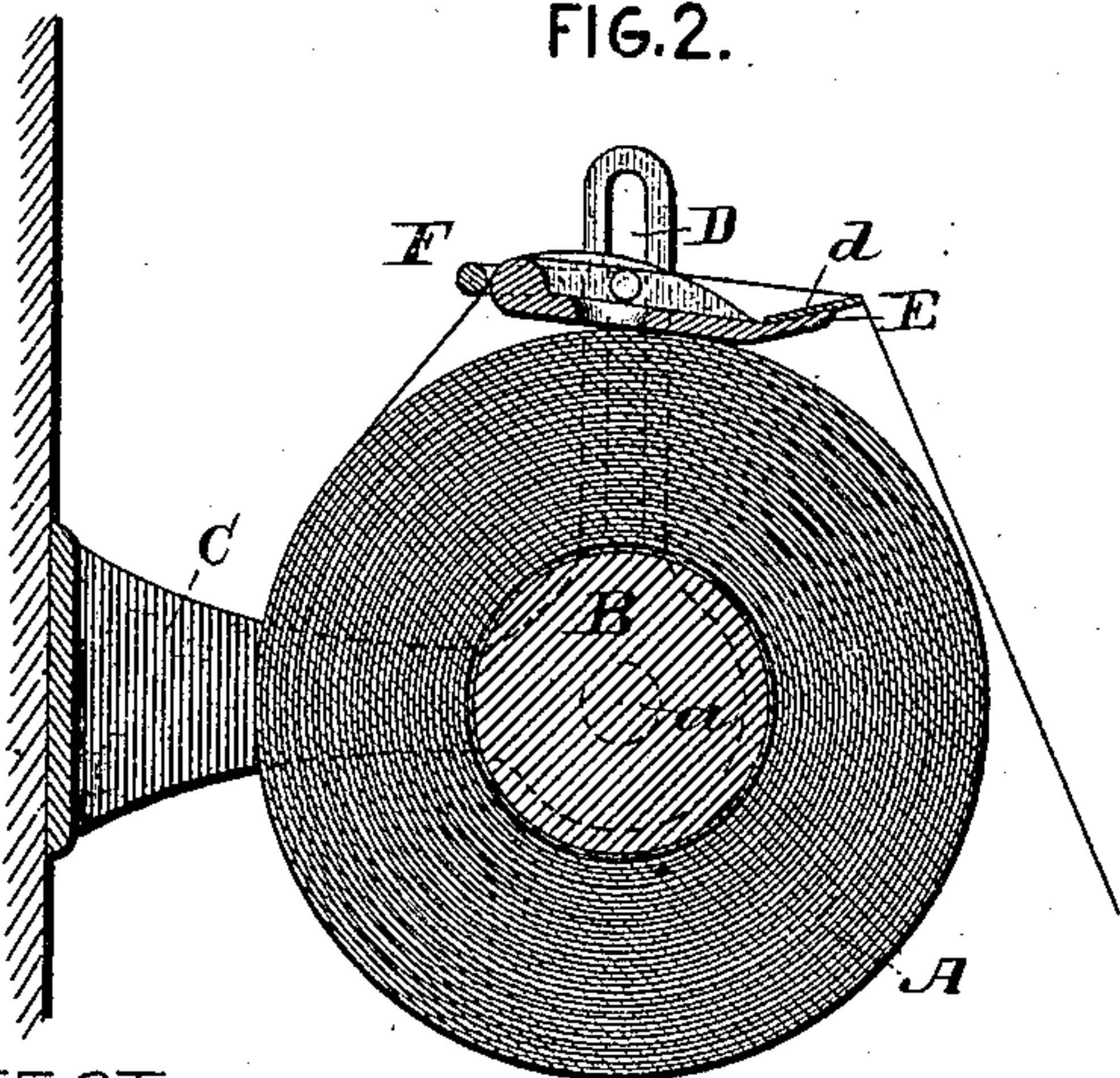
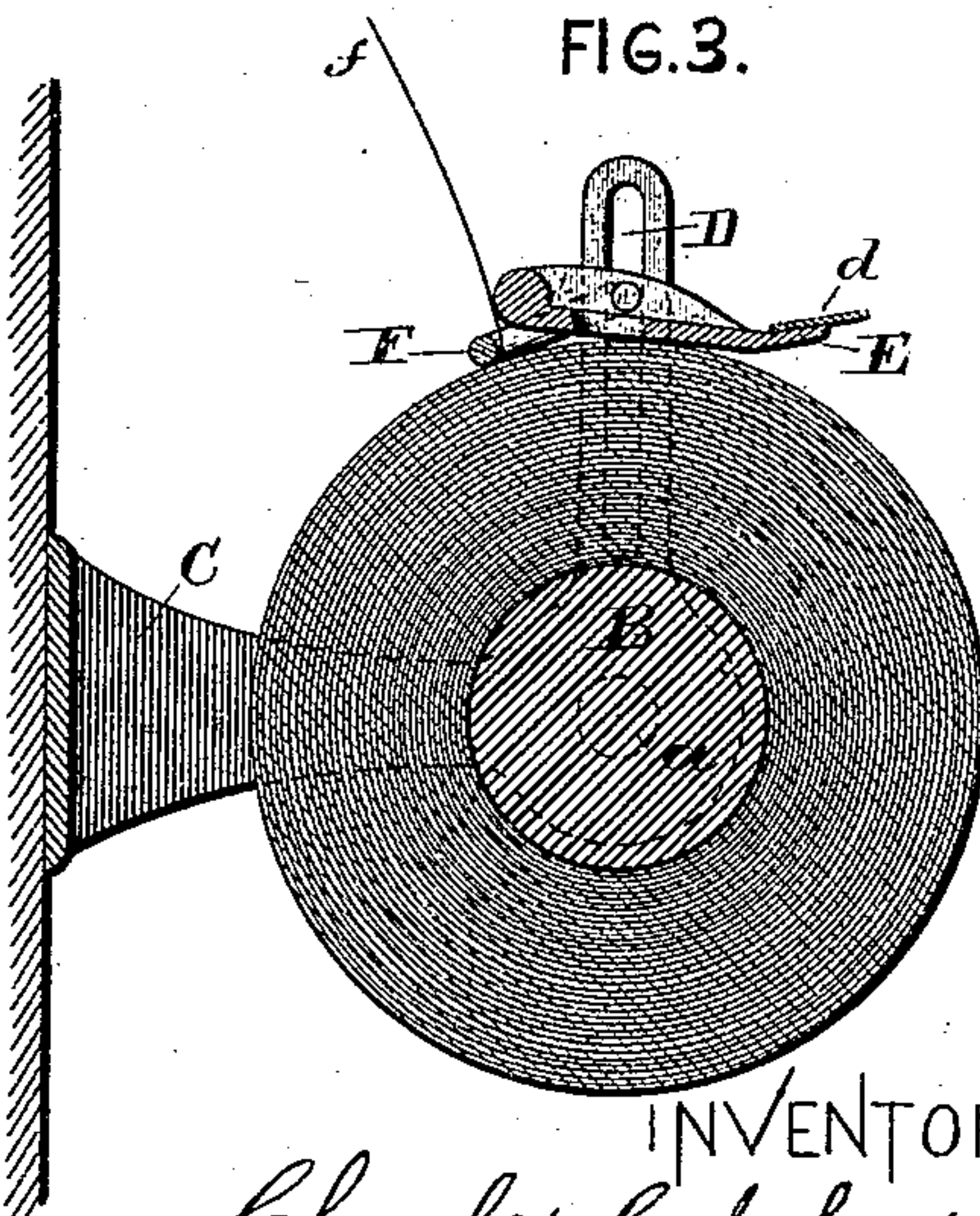


FIG. 3.



ATTEST.

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Harry L. Amer.

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Charles C. Johnson
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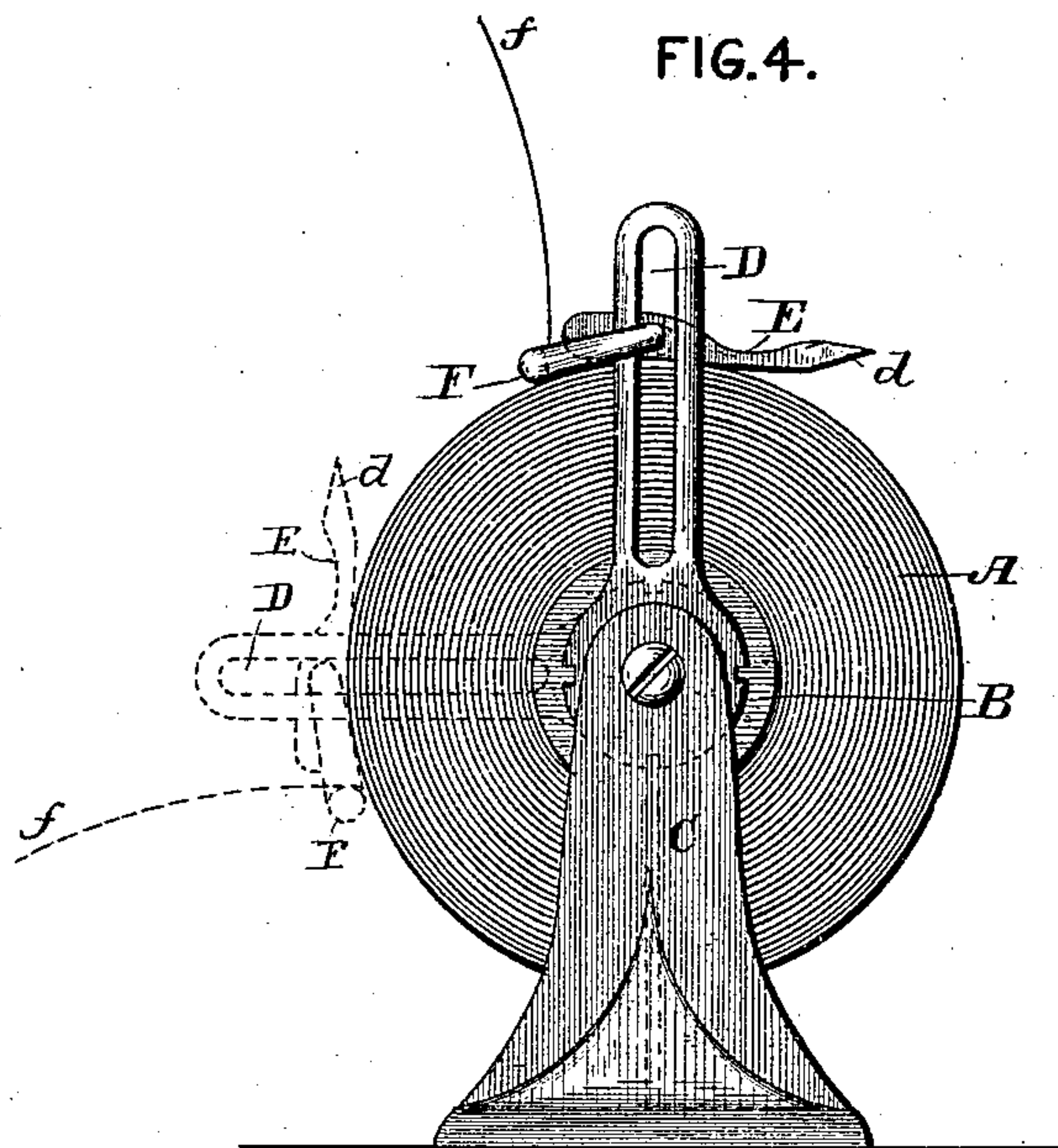
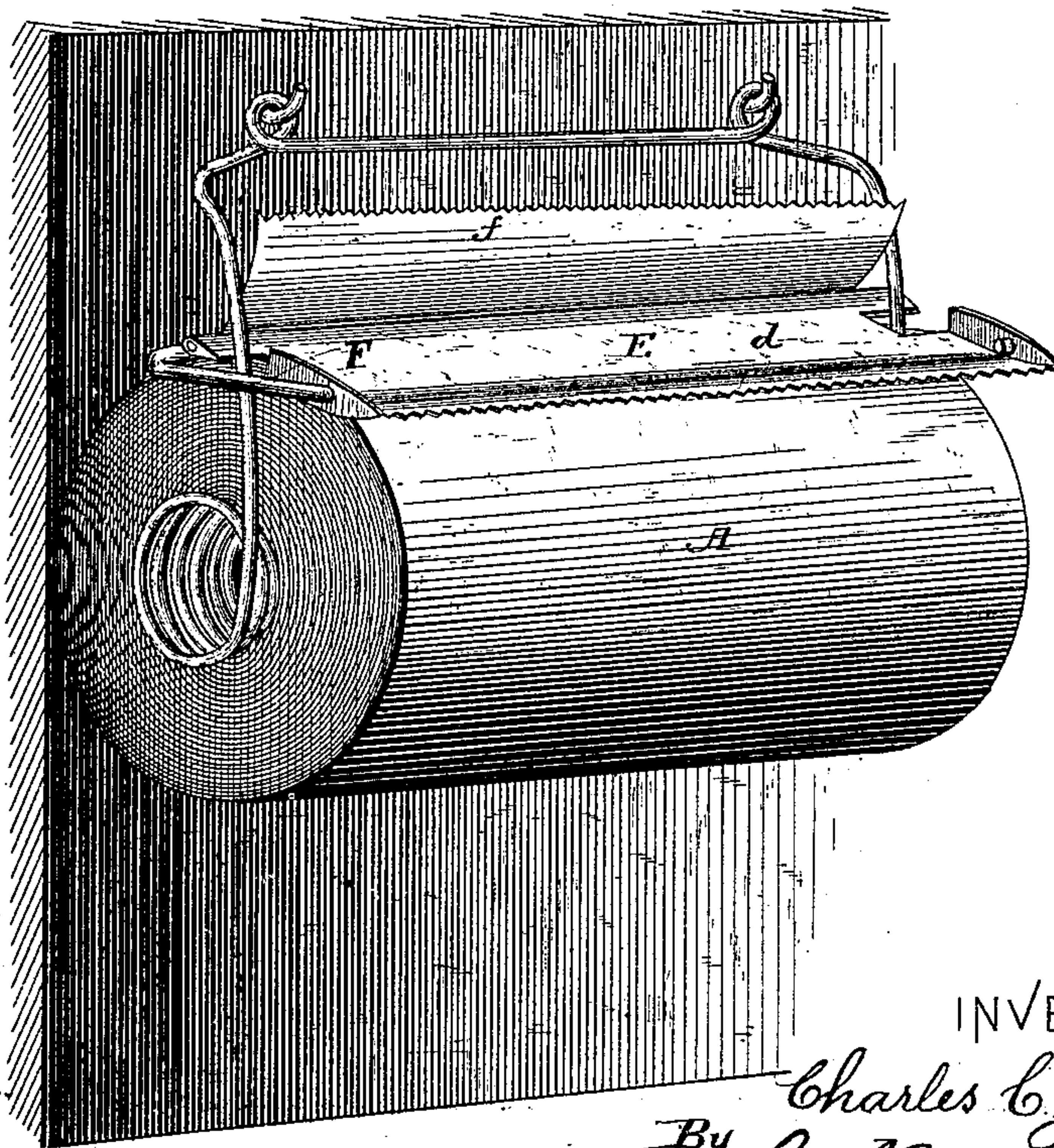


FIG. 5.



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UNITED STATES PATENT OFFICE.

CHARLES C. JOHNSON, OF SPRINGFIELD, ASSIGNOR TO HORACE W. THOMPSON, OF WESTMINSTER, VERMONT.

PAPER HOLDER AND CUTTER.

SPECIFICATION forming part of Letters Patent No. 316,368, dated April 21, 1885.

Application filed September 29, 1884. (No model.)

To all whom it may concern:

Be it known that I, CHARLES C. JOHNSON, of Springfield, in the county of Windsor and State of Vermont, have invented certain new and useful Improvements in Web Holders and Cutters; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this application.

My invention relates to certain new and useful improvements in contrivances for holding wound webs of paper and for facilitating the tearing of portions of the web for use as may be required. Such contrivances are sometimes designated "holders and cutters for web paper," and may be used either for water-closet paper or for wrapping-paper in stores or warehouses. An instance of such contrivances may be seen in United States Letters Patent No. 302,736, granted to myself July 29, 1884, and the main novel feature of my present invention may be applied, if desired, to such a contrivance as seen in my said Letters Patent.

My present invention consists, primarily, in the use, in connection with a bar or device provided with a cutter for severing the paper web, of a drag-bar arranged to co-operate with the rearmost portion of said cutter-bar in such manner as to throw the cut and exposed end of the web upwardly or into a position in which it may be most conveniently grasped whenever it may be desired to pull off a fresh supply of paper for severance and use; and my invention consists, secondly, in certain novel devices and combinations of devices which will be hereinafter more fully described, and which will be specifically pointed out in the claims of this specification.

To enable those skilled in the art to make and use my invention, I will now proceed to more fully describe the same, referring by letters of reference to the accompanying drawings, which make part of this specification, and in which I have shown my invention carried out in those forms in which I have so far successfully practiced it.

In the drawings, Figure 1 is a perspective view of my improved paper holder and cutter, showing the same in that form which is best adapted to the use of webs of paper—such, for

instance, as toilet-paper—to be hung or fastened up against the side of a wall or partition. Fig. 2 is a cross-section of the same but with the end of the paper web drawn off and pulled down over the cutter, ready for severance. Fig. 3 is a similar cross-section but showing the condition and relationship of the end of the web, the cutter-bar, and the drag-bar after the severance of a portion of the web. Fig. 4 is an end view of another form of roll-frame or reel-support in which said frame is provided at each end with adjustable slotted arms or extensions, so that said frame may be conveniently secured to a store-counter or to any horizontal support, or may be adjusted for use under the same circumstances for which the contrivance shown at Figs. 1, 2, and 3 is designed. Fig. 5 is a perspective view showing another modification of my invention and one in which the roll of paper is supported by a wire bail-like device, such as seen in my United States Patent No. 302,736.

In the several figures of the drawings the same part will be found designated by the same letter of reference.

Referring now more particularly to Figs. 1, 2, and 3, A represents the usual roll of web paper, which is supported axially upon the wooden or other plugs, B, forced into the opposite ends of its central opening and turning freely upon the short studs or spindles, *a*, which are preferably screwed into the metallic supporting-frame C. This frame C is composed of a plate-like portion adapted to be fastened up against a side wall or other vertical surface, and two projecting portions, which extend outwardly at about right angles from the plate-like portion, and which are provided at their outer ends with vertical extensions that are slotted out, as seen at D.

Mounted over the roll of paper, and resting thereon, is a cutter-bar, E, which is formed or provided at its forward edge with a serrated knife or cutter, *d*, and at its rearmost edge with a preferably rounded or bar-like portion, the said cutter-bar being free to descend by gravity as the size of the roll of paper decreases, and also to slightly rock or oscillate on its periphery, in a manner and for a purpose to be presently explained. Said cutter-bar is held in engagement with the slot-

ted portions of the metallic frame by studs projecting from each end of said cutter-bar into said slotted portions of the metallic frame.

In the case shown these studs for effecting an engagement between the cutter-bar of the slotted portions of the frame are composed of the end portions of a drag-bar, F, which, as shown, has its bent round-end portions pivotally connected with the ends of the cutter-bar, and has its main or body portion arranged to lie in the rear of the back edge of the cutter-bar and in close proximity thereto. As will be clearly understood from the drawings, the projecting or free end *f* of the web of paper will be caused to stand up in about the condition seen at Fig. 1 by reason of the action of the drag-bar F, which by gravity rests upon the back side of the paper in such manner as to cause the projecting portion *f* to be drawn and held in the position illustrated at Fig. 1.

When it is desired to use a portion of the paper, the free end *f* is grasped by the person using the contrivance, and, a sufficient quantity having been unreeled, the web is pulled over and down readily into the position seen at Fig. 2, whereby the drag-bar F is necessarily lifted, the points of the serrated cutter forced into the paper, and the further unreeling of the paper prevented by the pressure on the cutter, forcing the body of the cutter down onto the roll of paper, thus bringing all the moving parts to a dead-lock.

By the usual sudden and partial sidewise jerk on the paper the reeled-off portion of the latter in advance of the cutter is severed from the rest, and the remaining end of the web is again forced into the position seen at Fig. 3 by the descent by gravity of the drag-bar F into the position shown at Figs. 1 and 3. In the form of contrivance shown at Fig. 4, and adapted to be fastened on top of a counter or table, the slotted portions or extensions of the metallic frame are made of separate pieces, and are held in place by the screw-studs, on which are mounted the plugs that support the paper roll, and by unscrewing and retightening these screw-studs the slotted extensions of the metallic frame may be adjusted relatively to the main portion of said frame, so that the latter may be secured against a vertical wall or surface, thus permitting the use of the contrivance in the same manner as that shown at Figs. 1, 2, and 3. This adjustment of the parts is illustrated at Fig. 4 by the dotted lines. In the form of contrivance shown at Fig. 5, the same mode of operation is involved, the only difference in construction being that the floating cutter-bar having attached thereto the drag-bar is arranged in conjunction with a wire bail-like paper-support, instead of being mounted as in the other cases, to work in conjunction with a cast-iron roll-supporting frame provided with slotted extensions.

Of course, any variations in the details of construction of the contrivance may be made without departing from the spirit of my invention, and the main feature of the latter may be carried out under other modifications than those herein shown and described.

The drag-bar might be differently arranged on the floating cutter-bar, and the latter provided with independent studs or devices for engagement with the slotted portions of the metallic frame. Again, the drag-bar, instead of being pivoted to the cutter-bar, might be made to engage only with the slotted portions of the metallic frame, in such manner as to act by gravity on the paper and in the rear of the back edge of the cutter-bar, in substantially the same manner that it acts under the arrangements shown in the drawings. By use, however, of the slotted portions of the frame, and the combination therewith of the floating cutter-bar, and the drag-bar pivoted to the latter, a specific construction is produced, which I have found to work well, and to be simple and economic of manufacture.

If deemed expedient, the contrivances adapted for use in both of the ways shown at Fig. 4 may be made with the metallic frames both ways—that is, some made in the form shown at Fig. 1, 2, and 3, and others in the form shown in full lines at Fig. 4.

Having now so fully explained my invention that those skilled in the art can make and use the same in one form or another, as may be deemed expedient, what I claim as new, and desire to secure by Letters Patent, is—

1. In combination with a cutter-bar adapted to rest on the roll of paper, and means for supporting the latter, a drag-bar arranged to rest upon the paper in rear of the back edge of the cutter bar or frame, and operating to throw and hold the free end of the web upwardly and away from the cutter, all substantially in the manner and for the purposes hereinbefore set forth.

2. The combination of a roll-supporting frame provided with slotted portions, a floating cutter-bar working in engagement with said slotted portions of the frame, and a drag-bar arranged in the rear of the back portion of said cutter-bar, all substantially as and for the purposes set forth.

3. In combination with the floating cutter-bar and the roll-supporting cutter-frame provided with slotted portion, a drag-bar pivoted to said cutter-bar, and also operating to effect the engagement of said cutter-bar with said slotted portions of the frame, all substantially as hereinbefore set forth.

In witness whereof I have hereunto set my hand this 19th day of September, 1884.

CHARLES C. JOHNSON.

In presence of—

JAS. H. WILLIAMS,
JOS. S. WILLSON.