(No Model.) 2 Sheets—Sheet 1.

E. B. WESTON.

ROLL PAPER HOLDER AND CUTTER.

No. 506,451. Patented Oct. 10, 1893.

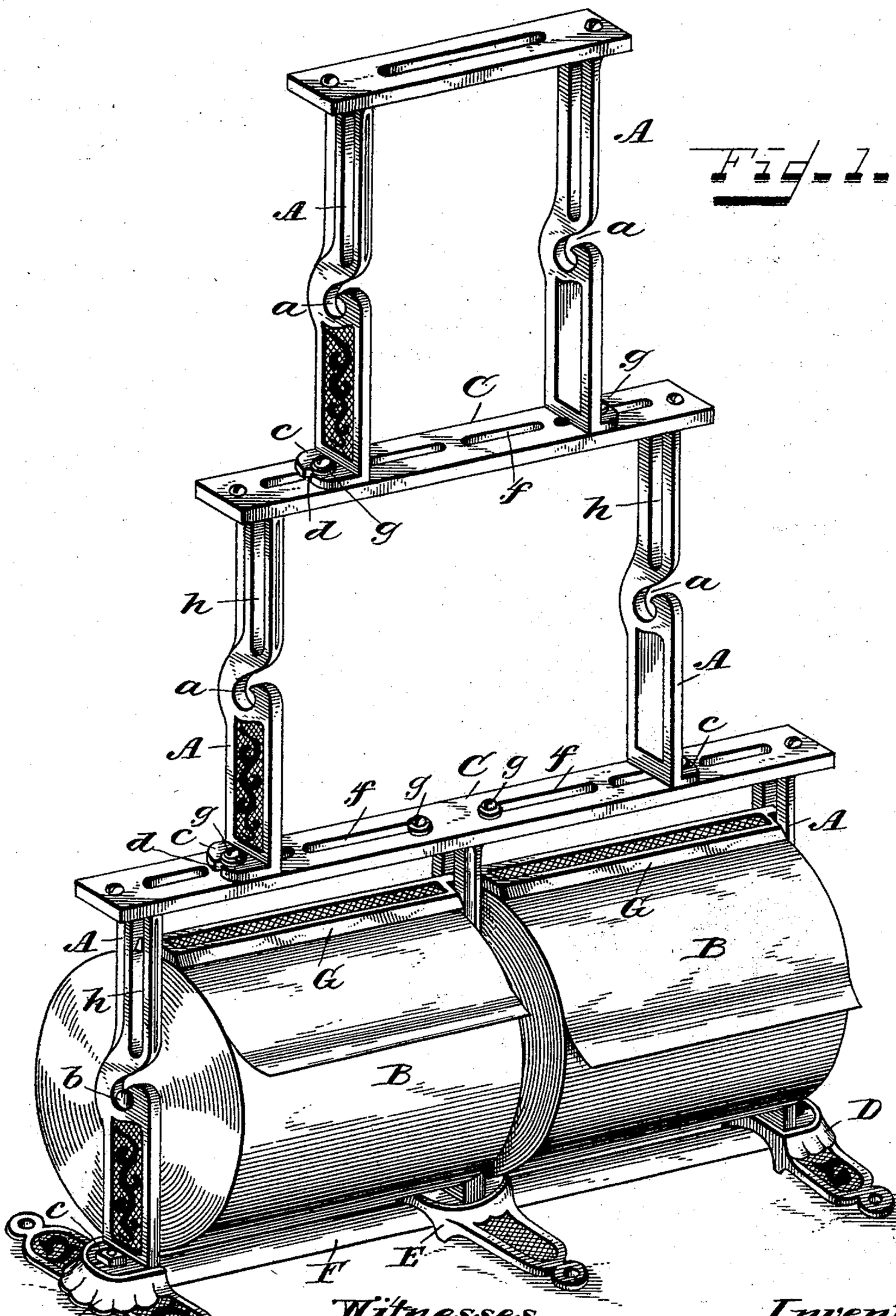

Fig. 1.

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(No Model.) 2 Sheets—Sheet 2.

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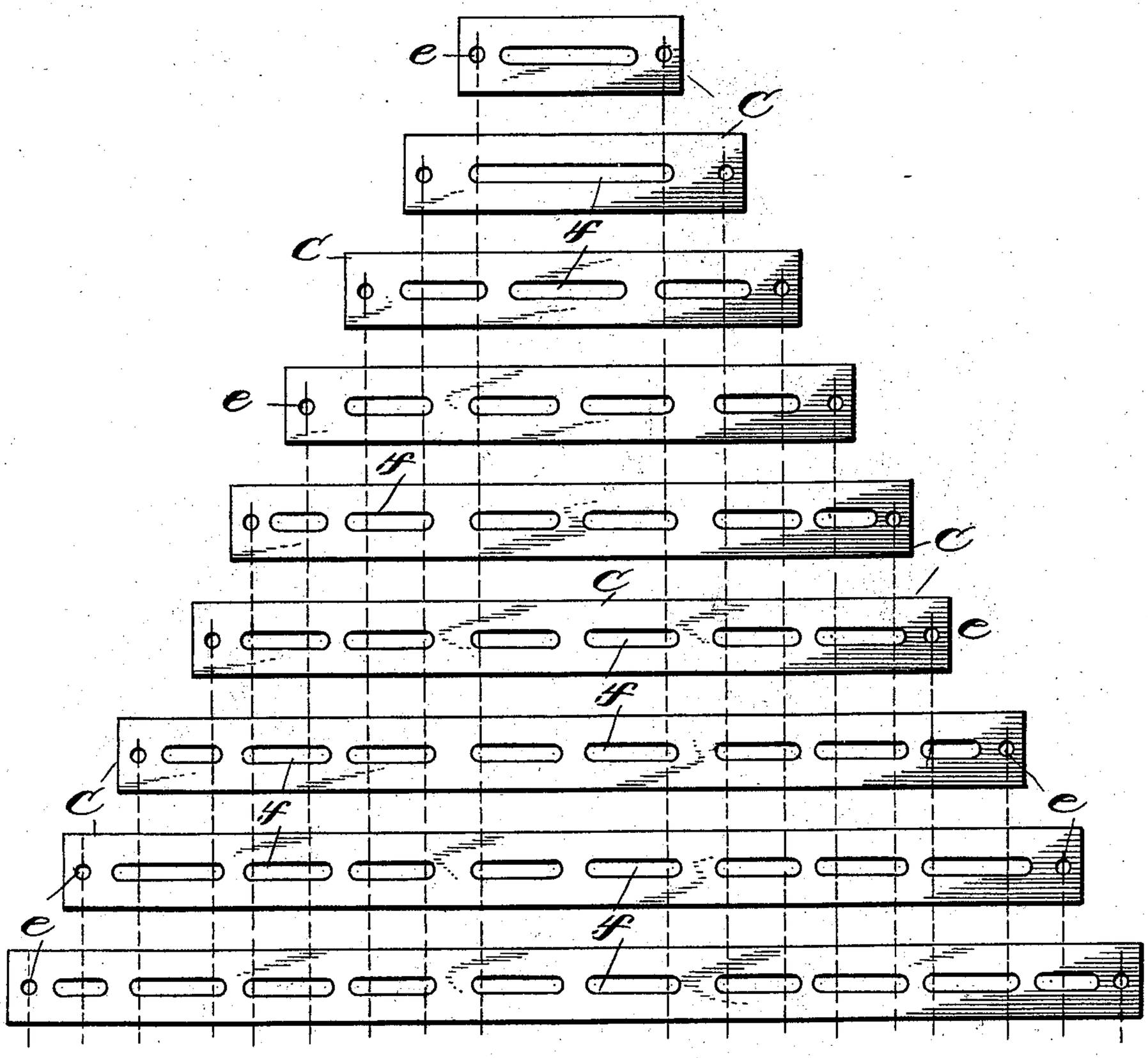
Fig. 2.



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UNITED STATES PATENT OFFICE.

EDWARD B. WESTON, OF DAYTON, OHIO.

ROLL-PAPER HOLDER AND CUTTER.

SPECIFICATION forming part of Letters Patent No. 506,451, dated October 10, 1893.

Application filed April 8, 1893. Serial No. 469,523. (No model.)

To all whom it may concern:

Be it known that I, EDWARD B. WESTON, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented a certain new and useful Improvement in Roll-Paper Holders and Cutters, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to a certain novel method of constructing the upper cross bars of each holder, whereby the paper holders of every size may be readily and easily arranged in pyramids by the jobbers or manufacturers, to suit the convenience of customers, without the necessity of drilling openings in the cross bars and without any additional expense or trouble.

It has long been customary to arrange the roll paper holders and cutters in pyramids for convenience of users; the smaller sizes being placed on top of the larger, and secured thereto by nuts and bolts or in various other ways. The number of sizes of these paper holders demanded by different users varies with the necessities and requirements of each particular business; some have use for a six inch, nine inch, and twelve inch roll; others, an eight, ten, and fourteen inch roll; others a six, twelve and fifteen; still others need two or more rolls of the same size, with single rolls of smaller size, and so on indefinitely. All sorts of combinations of holders are therefore required by the trade to meet the various demands.

Heretofore with simple cross bars to support the standards for the rolls the manufacturer has been obliged to fill each order for the various combinations separately, or the jobber has had to go to the expense of drilling suitable openings in the cross bars to arrange the holders in pyramids of such sizes as might be demanded.

It is to do away with this expense and trouble, that my invention is directed, and the novel features consists primarily in the formation of the cross bars which connect the standards with end circular openings and intermediate slots of such length that when the cross bars are arranged in pyramidal position the circular openings of each bar will register with some portion of the slots of each succeeding bar of larger size and in certain other features which will be hereinafter more particularly pointed out and claimed.

In the drawings:—Figure 1 is a perspective view of four holders and cutters of my construction, arranged in a pyramid. Fig. 2, is a diagrammatic view of the cross bars for the standards, showing the registration of the slots and bolt openings.

A, A, are the standards for the rolls, each formed with a journal bearing *a*, *a*, for the spindle *b* of the roll of paper B. Each of these standards is formed with a toe or projection *c*, *c*, at top and bottom, extending out at right angles to the standards and slotted at *d*.

C, C, are the cross bars formed with a circular opening *e*, *e*, Fig. 2 at each end and with intermediate slots *f*, *f*, and the cross bars are secured to the standards by the bolts and nuts *g;* the top cross bar of each pair of standards being secured through the circular openings at the end and the lower intermediate cross bars through the slots *f*, *f*. The outside or end openings in each cross bar are circular, as the outside or end standards are always secured to their uppermost cross bar by bolts passing through these outside or end openings, and circular openings are therefore sufficient, end slots being without function. While the openings between the end openings are slots of such length that when the cross bars are laid on each other in pyramidal position as shown in Fig. 2, the circular end openings of each bar will register with a slotted opening in each bar of larger size. With this construction of cross bars, it is possible to arrange in pyramids holders of any desired size without any further preparation or labor. Of course a single long slot might be formed in each cross bar, but with the larger sizes of rolls, this long slot would so weaken the cross bar, that such construction would not always be desirable. I therefore prefer to form a series of short slots in each bar, as shown. For the base for the pyramid of holders, I provide the feet D, D, formed with a recess to receive the toes or projections *c*, of the standards, of the lower holder. When two or more rolls are desired at the bottom of the pyramid, I provide an intermediate foot E formed with a circular recess to receive the projections on

the lower end of the intermediate standards, while these feet are connected together and braced by the bar F, secured thereto preferably by the same bolts that secure the projections *c*, to the feet. The cutting knives G, G, rest on top of the rolls, being guided in the slots *h*, *h*, in the standards and follow the roll as it decreases in size in the usual way.

It will be seen that with my construction of holder, the manufacturer can furnish the jobber with the different parts of the holders for all the various sizes of rolls and that with this construction of cross bars, it will be no longer necessary for either the jobber or manufacturer to specially arrange each pyramid to fill an order. The holders can be put together and arranged in pyramids to suit requirements by the users themselves, without any trouble or expense whatsoever.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a series of roll paper holders and cutters, the combination, with a series of upright standards for the rolls, of a series of cross bars to connect and brace said standards together, and end circular openings with intermediate slots in said bars, said intermediate slots being of such length that the end circular openings of each bar will register with some portion of the slots in each succeeding bar of larger size when the bars are arranged in pyramidal position, substantially as shown and described.

2. In a series of roll paper holders and cutters, the combination, with a series of upright standards for the rolls and lips or projections on each end thereof, of a series of cross bars, and end circular openings with intermediate slots in said bars, said intermediate slots being of such length that the end circular openings of each bar will register with some portion of the slots in each succeeding bar of larger size, when the bars are arranged in pyramidal position, and bolts engaging within said slots and circular openings to secure said bars to the standards in such pyramids as may be desired, substantially as shown and described.

EDWARD B. WESTON.

Witnesses:
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FRANK J. BREENE.