

(No Model.)

L. K. BINGHAM.

APPARATUS FOR MAKING PRINTERS' ROLLERS.

No. 413,894.

Patented Oct. 29, 1889.

Fig. 1.

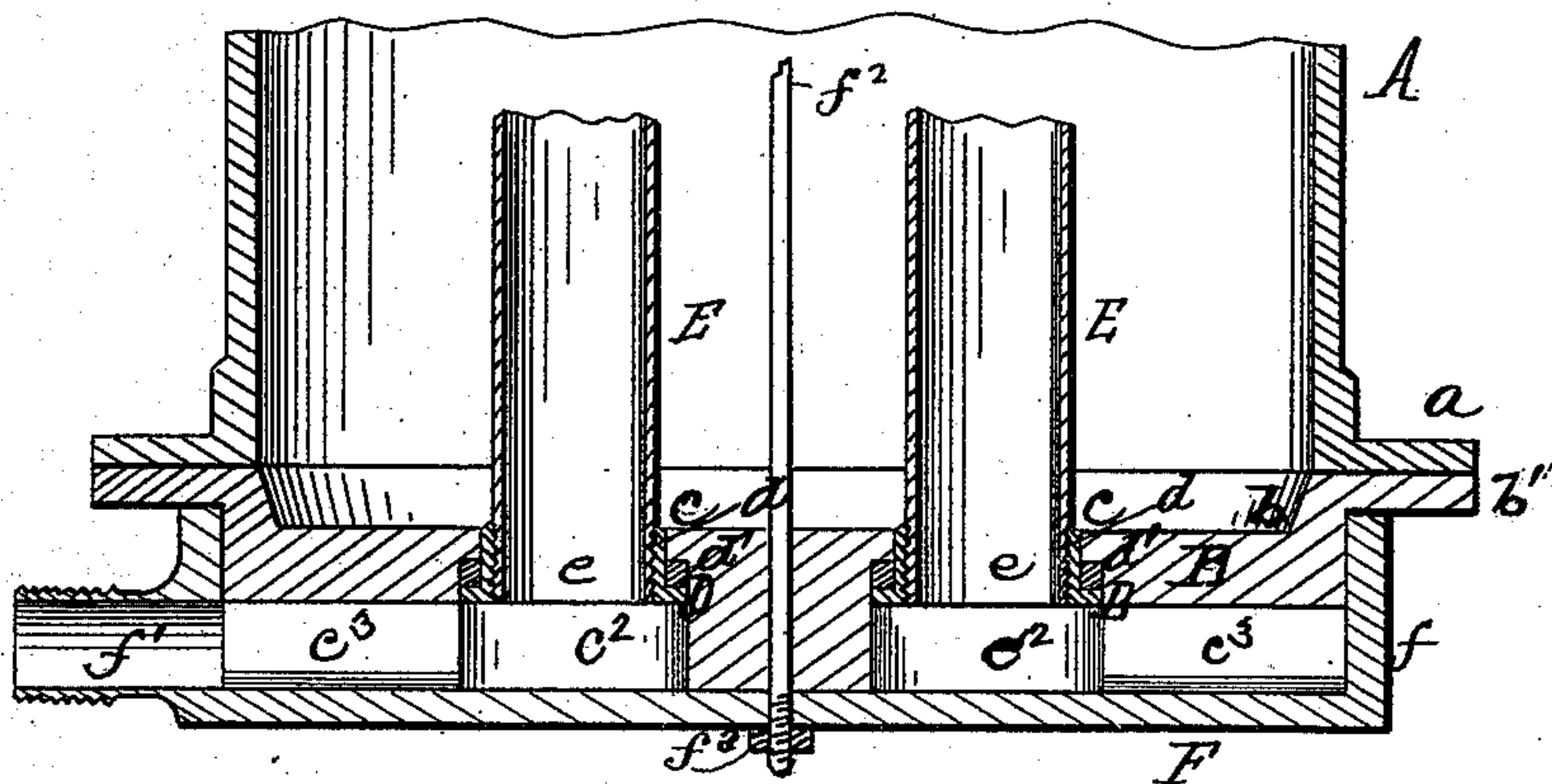
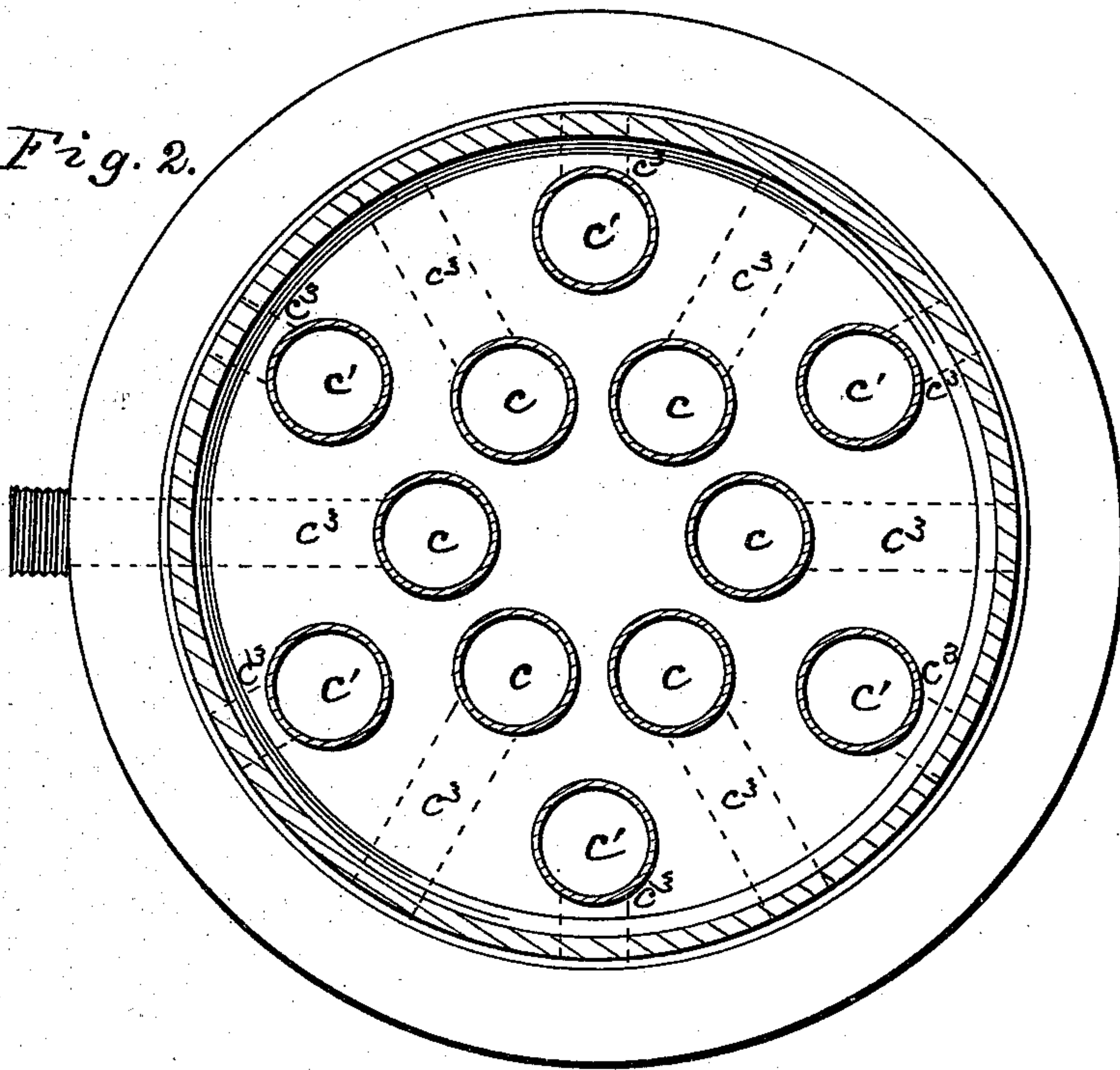


Fig. 2.



Witnesses
Thos. Houghton.
H. B. Schaefer

Inventor
Leonard K. Bingham.
per W. H. Hingleton
Attorney

UNITED STATES PATENT OFFICE.

LEANDER K. BINGHAM, OF NEW YORK, N. Y.

APPARATUS FOR MAKING PRINTERS' ROLLERS.

SPECIFICATION forming part of Letters Patent No. 413,894, dated October 29, 1889.

Application filed March 13, 1889. Serial No. 303,104. (No model.)

To all whom it may concern:

Be it known that I, LEANDER K. BINGHAM, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Apparatus for Making Printers' Rollers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Figure 1 is a transverse section of a portion of a cylinder having the invention, the section being on line xx , Fig. 2. Fig. 2 is a horizontal section looking down within the cylinder.

This invention relates to improvements in apparatus for making printers' rollers, more particularly to the construction of the lower end of such apparatus.

The invention is illustrated as being used with an apparatus composed of a cylinder containing a number of mold-tubes.

The invention consists in the construction hereinafter pointed out.

In the drawings hereto annexed, the letter A indicates the usual cylinder to be provided with the trunnions and steam and water inlet and overflow, as is well understood in this class of devices. The bottom head B drops at b , having the circumferential rim b' , by which it is to be attached to the rim a of the cylinder-body. This head B has the holes $c c'$ arranged in circles. The inner ones c come between the outer ones c' , as shown in Fig. 2. On the under side of the head B at each hole is made a countersink c^2 , and from each countersink a bottomless channel c^3 runs to the periphery of the head. Into the countersink and up through the holes $c c'$ are inserted the glands D, having the threads d and provided with the packing d' . Engaging the

threads d are the lower ends e of the mold-tubes E, the upper ends of which are held suitably in the top head of the cylinder.

Supported under the head B is the movable bottom F. This bottom is made with a rim f and receives within it the head B. There is a nozzle f' leading within the bottom F. This bottom is held in place by a rod f^2 , which passes down through the cylinder, and the bottom F is held thereon by a nut f^3 .

In use the roller-stocks are inserted into the mold-tubes in the usual way, and the bottom F is put in place and turned until the nozzle f registers with one of the channels c^3 , when roller-composition is admitted through the nozzle under pressure from a head or otherwise. The composition rises up and fills a mold-tube. When this is filled, the bottom is turned until the nozzle registers with another channel, and so on until the mold-tubes are filled. Steam and water are admitted, as usual, and after the rollers are formed they are taken out in the usual way, the bottom F being removed.

Having thus described my invention, what I claim is—

1. The combination of the cylinder, its mold-tubes, the bottom head having the holes for the tubes, the countersinks around the holes, and the bottomless channels running from the countersinks to the edge of the head with the bottom provided with the nozzle, as set forth.

2. The combination of the cylinder, its mold-tubes, the bottom head having the holes for the tubes, and the bottomless channels running from the holes to the edge of the head with the bottom provided with the nozzle, as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

LEANDER K. BINGHAM.

Witnesses:

C. MACARTHUR,

CHARLES BINGHAM.