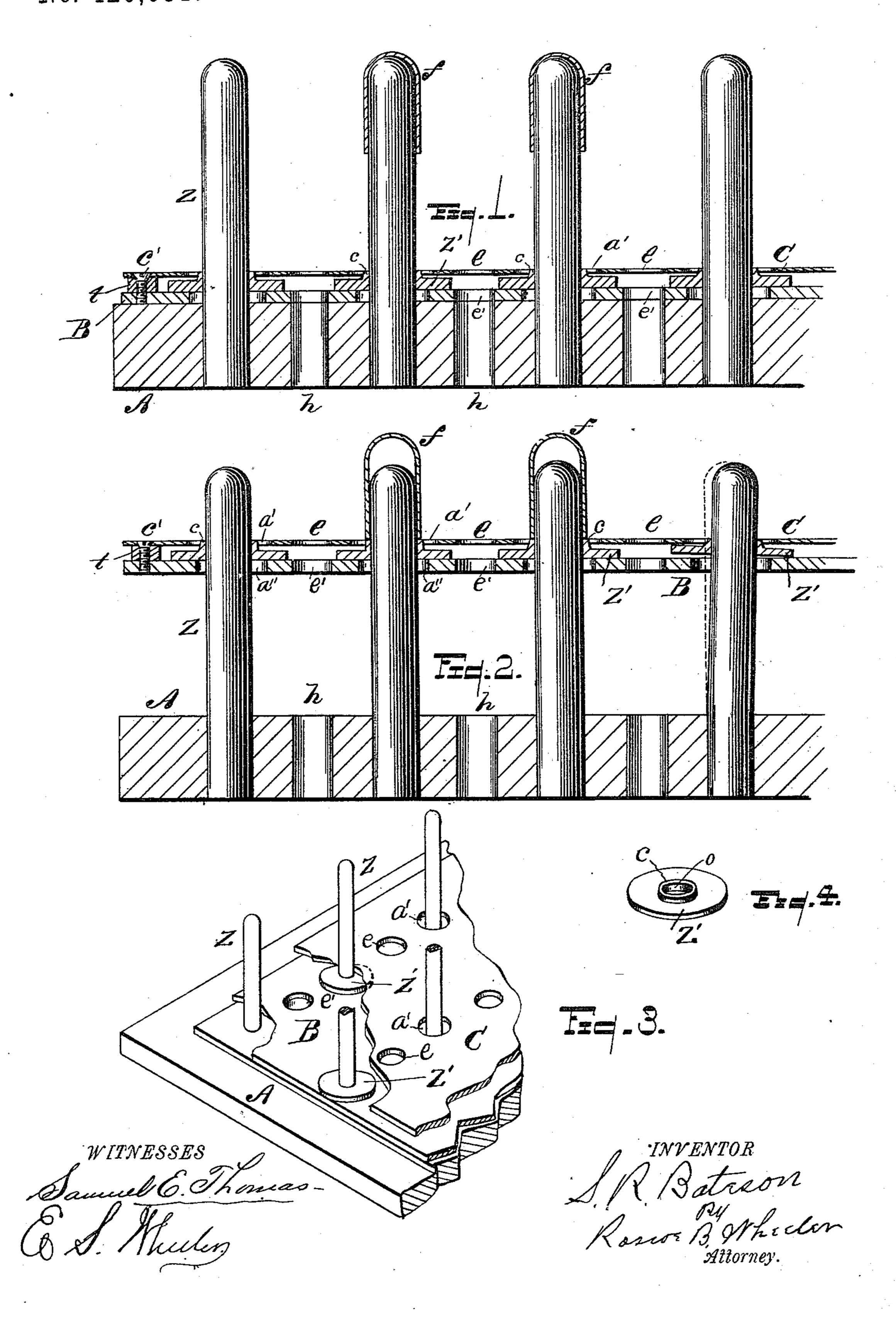
S. R. BATESON.
CAPSULE MOLD AND STRIPPING DEVICE.

No. 420,031.

Patented Jan. 28, 1890.



United States Patent Office.

SAMUEL R. BATESON, OF DETROIT, MICHIGAN.

CAPSULE-MOLD AND STRIPPING DEVICE.

SPECIFICATION forming part of Letters Patent No. 420,031, dated January 28, 1890.

Application filed June 8, 1889. Serial No. 313,621. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL R. BATESON, a citizen of the United States, residing at Detroit, in the county of Wayne and State of 5 Michigan, have invented certain new and useful Improvements in Combined Capsule-Mold and Stripping Device; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable oth-10 ers 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.

This invention relates to a combined capsule-mold and stripping device; and it consists in a certain construction and arrangement of parts whereby capsules may be readily formed thereon and when dried readily 20 and effectually stripped from the capsule or mold pins, as will be hereinafter more fully set forth, and the essential features pointed

out particularly in the claims.

In the accompanying drawings, forming a 25 part of this specification, Figure 1 is a section through a portion of my device, the pins being in elevation, showing capsules formed over the ends of two of the central pins. Fig. 2 is a view of same, showing the stripping-plate 30 raised as when removing the capsules from the pins. Fig. 3 is a perspective of the moldplate and stripping device, a like portion being broken away. Fig. 4 is a view in detail of the washer or stripper, to be referred to.

As indicated in the drawings, A represents the mold-plate; Z, the pins located therein; B and C, the plates forming the strippingframe, and Z' the interposed washers or

strippers.

In the mold-plate A is secured the series of capsule-forming pins Z, which are in common use, said plate also being provided between the rows of pins with the air passages or holes h.

The plates B C are provided with the openings a'a'', respectively. Said openings register with each other and freely receive the pins Z. The washers Z', having the annular shoulder c, are located between the plates B 50 C, the central opening o through said wash-

a' a" through said plates and snugly fitting the periphery of the pins Z. By means of the hollow post t and screw c' (see Figs. 1 and 2) the plates BC are held tightly and at the 55 proper distance apart, allowing the washers Z' perfect freedom to adjust themselves hori-

zontally between said plates.

The operation is as follows: The parts being in position, as shown in Fig. 1, the base-60 plate B resting against the upper face of the mold-plate A, the outer or free ends of 'the pins Z are then dipped into the gelatine solution from which the capsules are made. The gelatine adhering to the end of said pins 65 forms the capsule f thereon. When sufficiently dried, said capsules are cut the desired length while on the pins, as shown in Fig. 1. The stripping device is then raised or brought toward the free ends of the pins 70 Z, (by any suitable means,) causing the annular shoulder c of the washer Z' to engage with the lower end of the capsules formed on the pins Z, whereby said capsules are stripped or removed from the pins, as clearly shown in 75 Fig. 2. Should the pins Z become bent, as shown at the right of Fig. 2, the washer Z', snugly fitting the periphery of said pin and lying loosely between the plates B C, will follow the bend of the pin and strip as freely as 80 though the pins were straight. It will be seen that the openings h through the mold-plate A register with the openings e e' through the plates B C, thus permitting a free circulation of air through said plates, which as- 85 sists in more rapidly drying the gelatine solution on the pins Z after said pins have been dipped. The holes a'' in the stripping-plate B are larger in diameter than the pins Z, so as not to have said plate come in contact with 90 said pins in its up-and-down movement. The holes a' in the plate C are also larger in diameter than the pins Z, as shown in Fig. 3. In this view it will be observed that the stripping-washers Z' have no annular bead or 95 shoulder c, while in Figs. 1, 2, and 4 the washer has such shoulder. The form shown in Figs. 1, 2, and 4 is the preferred form, for the reason that the annular bead c of the washer projects through the upper plate having its 100 plane the same as that of the upper face of ers (see Fig. 4) registering with the openings $|\bar{t}|$ the plate C. The bead c also aids to keep

the washers Z in position should the stripping-frame be removed from the pins for repair.

Having thus fully set forth my invention, 5 what I claim as new, and desire to secure by

Letters Patent, is—

1. In combination with the mold-pin plate, the stripping device consisting of two plates having holes which register with each other 10 and freely receive the pins of the mold-plate, the series of washers located between them, said washers receiving snugly the pins of the mold-plate and adapted to have horizontal movement between the plates of the strip-15 ping device, substantially as and for the pur-

poses specified.

2. In combination with the mold-pin plate, the stripping device consisting of two plates having holes which register with each other 20 and receive freely the pins of the mold-pin plate, the series of washers or strippers Z', located between the plates of the stripping device, said washers having the annular

shoulder c, which projects through the upper plate of the stripping device, said washers 25 having a hole through them which snugly receives the pins of the mold-pin plate, as and

for the purposes specified.

3. In combination with the mold-pin plate, having the series of ventilation-holes h, the 30 plates B C of the stripping device having ventilation-holes which register with the holes of the mold-pin plate, the plates B C also having the holes a' a'' of greater diameter than that of the mold-pins, the series of wash- 35 ers located between the plates B C, the holes in said washers fitting snugly to the periphery of the mold-pins, the screw and hollow posts uniting the plates B C, substantially as and for the purposes specified.

In testimony whereof I affix my signature

in presence of two witnesses.

SAMUEL R. BATESON.

Witnesses:

P. A. SCHMIDT, R. B. WHEELER.