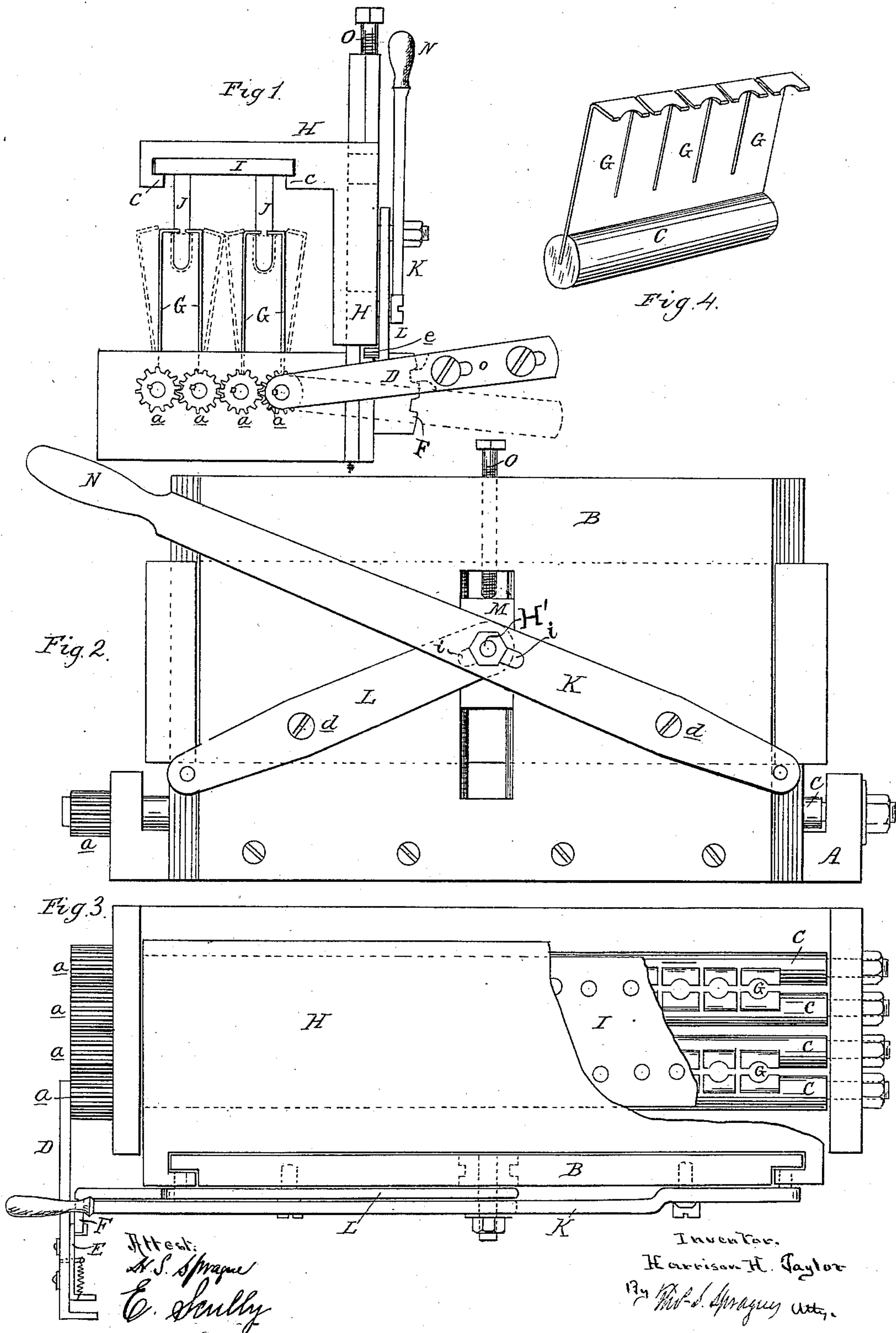


(No Model.)

H. H. TAYLOR.
CAPSULE REMOVER.

No. 268,144.

Patented Nov. 28, 1882.



UNITED STATES PATENT OFFICE.

HARRISON H. TAYLOR, OF DETROIT, MICHIGAN, ASSIGNOR TO FREDERICK
A. HUBEL, OF SAME PLACE.

CAPSULE-REMOVER.

SPECIFICATION forming part of Letters Patent No. 268,144, dated November 28, 1882.

Application filed April 13, 1882. (No model.)

To all whom it may concern:

Be it known that I, HARRISON H. TAYLOR, of Detroit, in the county of Wayne and State of Michigan, have invented new and useful
5 Improvements in Capsule-Removing Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

10 The nature of this invention relates to certain new and useful improvements in the construction of that class of machines employed for removing gelatine capsules from the pin-molds upon which they have been formed; and
15 the invention consists in the peculiar construction, arrangement, and various combinations of the parts, all as more fully hereinafter set forth.

20 Figure 1 is an end elevation. Fig. 2 is a side elevation. Fig. 3 is a top plan. Fig. 4 is a perspective showing construction of pulling-fingers.

In the accompanying drawings, A represents a suitable bed-plate, to one side of which
25 is rigidly secured the standard guide-plate B. Journaled longitudinally across the bed-plate A are the rock-shafts C, and one end of each of these rock-shafts is provided with pinions a, which mesh with each other, and to one of
30 these shafts is secured a lever, D, which is provided with a spring-latch, E, which engages with the latch-plate F, projecting from the bed of the machine. Each of these rock-shafts C is provided with a series of pulling-
35 fingers, G, formed separately or from a plate, as shown in Fig. 1.

H represents the mold-bearing plate, arranged to have a vertical sliding movement upon the guide-plate B, and provided in its
40 horizontal arm or body with guides or flanges c, to receive the plate I, which carries the molds J.

45 K L represent two levers, fulcrumed to the plate B, as at d, and the short arm of each of these levers is provided with a pin, E, and upon these pins the vertical sliding plate H rests, as will be clearly seen upon reference to the drawings. The longer arms of these levers K L meet and cross each other, and are secured to the sliding block M by means of a
50 bolt, H', and slots i, such block having a vertically-sliding movement in the plate B. The

long arm of the lever K is elongated and terminates in a handle, N, by means of which this portion of the machine is operated. The
55 vertical movement of the block M is regulated by the adjusting-screw O.

In practice the lever D is depressed, which causes a partial rotation of the rock-shafts C, and hence necessarily compels the pulling-fingers G to separate and assume the positions
60 shown in dotted outlines in Fig. 1. The plate I, which carries the molds J, upon which the capsules have been formed, is then inserted in the sliding plate H, and the handle N is
65 elevated, causing a depression of the short arms of the levers K and L, allowing the frame H to drop or slide down and present the capsules between the series of pulling-fingers G. The lever D is then raised, which compels the
70 pulling-fingers to grasp the mold-pins above the capsules. By thus depressing the handle N the slide H is compelled to rise and carry with it the molds, forcibly withdrawing the
75 mold-pins from between the fingers, and stripping them of the capsules. It will readily be seen that by controlling the elevation of the sliding block M, I determine the degree that the mold-pins shall enter between the pulling-
80 fingers, so that it can readily be adjusted through the medium of the adjusting-screw O for removing capsules of varying lengths.

The rock-shafts, locking lever, sliding plate H, mold-plate, and guide B, are not herein specifically claimed, as they form the subject
85 of another application of same date as the present one.

What I claim as my invention is—

1. In a capsule-pulling machine, the combination of the grooved fingers G and mechanism
90 for advancing and retracting opposing series thereof, a removable mold-frame and sliding follower, the levers L and K, and handle N, substantially as shown and described.

2. A capsule-pulling machine consisting of
95 the bed-plate A, guide B, rock-shafts C, levers D, K, and L, fingers G, sliding plate H, block M, and screw O, the parts constructed, arranged, and operating substantially as and for the purposes set forth.

HARRISON H. TAYLOR.

Witnesses:

H. S. SPRAGUE,
E. SCULLY.