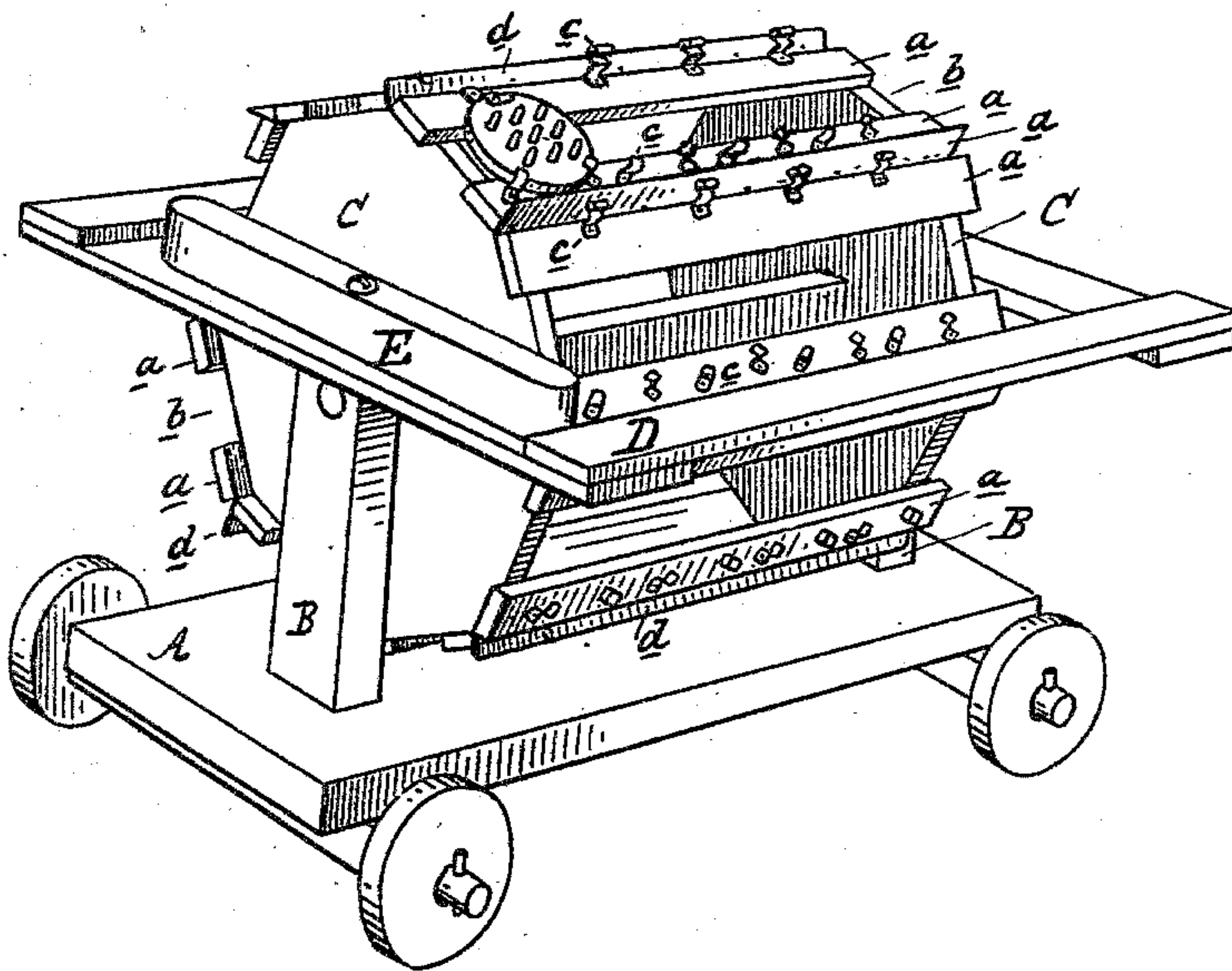


(No Model.)

J. KREHBIEL.  
CAPSULE DRYING RACK.

No. 296,846.

Patented Apr. 15, 1884.



Attest:

A. Barthel

E. Scully

Inventor:

John Krehbiel

by his Atty. Thos. L. Magnus



# UNITED STATES PATENT OFFICE.

JOHN KREHBIEL, OF DETROIT, MICHIGAN, ASSIGNOR TO THE GLOBE CAPSULE COMPANY AND HENRY J. MILBURN, OF SAME PLACE.

## CAPSULE-DRYING RACK.

SPECIFICATION forming part of Letters Patent No. 296,846, dated April 15, 1884.

Application filed November 3, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN KREHBIEL, of Detroit, in the county of Wayne and State of Michigan, have invented new and useful Improvements in Capsule-Drying Racks; 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.

This invention relates to certain new and useful improvements in the construction and operation of revolving racks for the purpose of receiving several rows or series of mold-plates employed in the manufacture of gelatine capsules, to allow such capsules to dry sufficiently to be cut into proper and uniform lengths; and then, after such cutting of the capsules, adapted to be run into a kiln or drying-room preparatory to the removal of such capsules from the mold-pins, such removal being accomplished while the plates of molds are upon the rack; and then to sustain such plates of molds while the mold-pins are being lubricated preparatory to again being immersed in gelatine for the next round of operation, as herein described.

The invention consists in the peculiar construction and operation of a rack for the purposes above described.

In the accompanying drawing, which forms a part of this specification, my invention is shown in perspective.

A represents a suitable truck.

B are standards rising from and secured to the bed of the truck, and in these standards is journaled a shaft, upon which are secured the polygonally-shaped heads C. To each of the "flats" of the heads are secured the flat ribs *a*, having an interval, *b*, between each pair of ribs. These ribs are provided with proper buttons or clamps, *c*, designed to engage with a plate of capsule-molds. One rib of each pair is provided with a flange or trough, *d*, projecting at right angles, or nearly so, to the face of the rib to which it is attached.

D is a platform secured to the top of the standard, and E is a lever or stop pivotally secured upon one end of the platform, and its office is, when engaged by the operator be-

tween the projecting ends of the ribs, to prevent the rack from rotating. Any other device may be used for this purpose. The platform is designed to connect with a track leading to it from the point where the mold-pins are dipped into the gelatine.

In practice, as one after another of the mold-plates has been dipped, such plates are secured in rows upon the face of the rack by means of the buttons, the rack being prevented from rotating by the stop until one flat is filled, the gelatine in the meantime gradually hardening or "setting" on the mold-pins. When the first flat is filled, the stop is opened and the rack partially rotated, to permit the next one to be filled. When a sufficient quantity of such plates of molds have been secured to the rack, the gelatine on the molds on the first flat is sufficiently set to allow the capsules to be cut into the desired length. This is done, without removing the mold-plates from the rack, by means of a cutter, which I make the subject-matter for another application for a patent. After all the plates successively have been thus treated, the rack is drawn into a suitable kiln or drying-room, where it remains until the capsules are thoroughly dried. Then the rack is removed from the drying-room and the cut capsules removed from the mold-pins (the mold-plates being still secured to the rack) by a removing device, which I also make the subject-matter of another application for a patent. The capsules, being removed from the mold-pins, fall upon the flange or into the trough, whence they are removed by the continued rotation of the rack dumping them into a receptacle suitably placed to receive them.

What I claim as my invention is—

1. The combination, with a revolving capsule-drying rack, of a series of capsule-mold plates, and means, as *c*, substantially as described, for securing said plates to the rack, as and for the purposes specified.

2. The combination, with a revolving capsule-drying rack, of a series of capsule-mold plates, means, as *c*, for securing said plates to the rack, and a locking-stop, as E, substantially as and for the purposes specified.

3. The combination, with a revolving cap-



sule-drying rack, of a series of capsule-mold plates, means, as *c*, for securing said plates to the rack, a locking-stop, as *E*, and flanges or troughs, as *d*, substantially as and for the purposes set forth.

5 4. A revolving capsule-drying rack, consisting of the following elements: a truck, *A*, a polygonal rack, *C*, supported upon said

truck, locking-clamps *c*, locking-stop *E*, and flanges or troughs *d*, the parts being constructed, arranged, and operating substantially as and for the purposes described.

JOHN KREHBIEL.

Witnesses:

H. S. SPRAGUE,  
E. SCULLY.