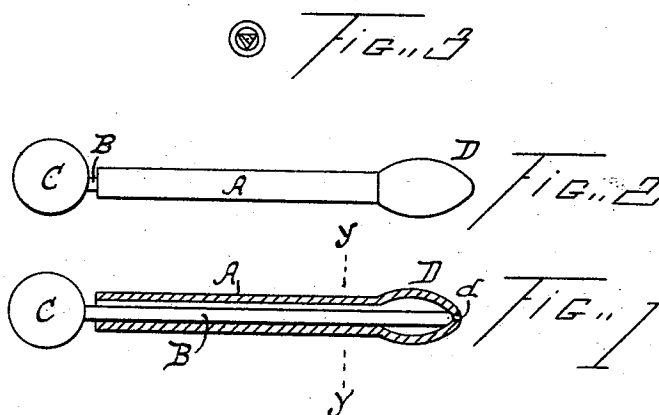


(No Model.)

H. M. FERRY.  
CAPSULE MOLD.

No. 495,406.

Patented Apr. 11, 1893.



Witnesses  
Jesse M. Smith  
Gertrude H. Anderson

Inventor  
Henry M. Ferry

# UNITED STATES PATENT OFFICE.

HENRY M. FERRY, OF DETROIT, MICHIGAN.

## CAPSULE-MOLD.

SPECIFICATION forming part of Letters Patent No. 495,406, dated April 11, 1893.

Application filed August 6, 1892. Serial No. 442,328. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY M. FERRY, of Detroit, in the county of Wayne and State of Michigan, have invented a new and useful Improvement in Capsule-Molds, of which the following is a specification.

My invention consists in an improved capsule mold, hereinafter fully described and claimed.

Figure 1 is a longitudinal central section through the mold. Fig. 2 is a side elevation thereof, and Fig. 3 is a cross-section on line *y-y* Fig. 1.

In making soft capsules, an oval shaped mold carried on a stem is dipped into a preparation of gelatine, &c., until a coating of sufficient thickness has been formed upon the mold; it is then withdrawn, allowed to partially set, is cut around the base of the mold, and is stripped from the mold by the operator's fingers. The elasticity of the capsule permits its neck to pass over the mold, but in the operation of stripping, a vacuum is formed within the capsule, which compresses it out of shape and renders it somewhat difficult to handle.

The object of my present invention is to avoid this difficulty.

D represents a mold of the usual form, carried on a hollow stem A.

*d* represents an opening through the point of the mold (which is shown somewhat exag-

gerated in Fig. 1, it really being very small), and which opening forms a valve seat, and B represents a valve lying within, but not closing the hollow stem A, and whose point is adapted to fill the opening *d* substantially flush with the surface of the mold. As shown in the drawings, the stem of valve B is made triangular, but it may be any other shape.

For the purpose of making the valve automatic, I prefer to put a weight C on the end of the stem of valve B, so that when the mold is inverted for dipping, the orifice *d* will be closed, and when the mold is turned for stripping, the weight C will withdraw the valve from said orifice. This permits the passage of air into the capsule as it is stripped from the mold and prevents its collapsing.

What I claim as my invention, and desire to secure by Letters Patent, is--

1. A capsule mold having an orifice therein, a hollow stem and a valve playing in said hollow stem and adapted to close said orifice, substantially as and for the purposes set forth.

2. In combination with the capsule mold D carried on the stem A and having the orifice *d* formed therein, the valve B having the weight C thereon, substantially as shown and described.

HENRY M. FERRY.

Witnesses:

JESSE M. SMITH,

GERTRUDE H. ANDERSON.