

(No Model.)

C. A. TATUM.
TABLET MACHINE.

No. 541,895.

Patented July 2, 1895.

Fig. 1

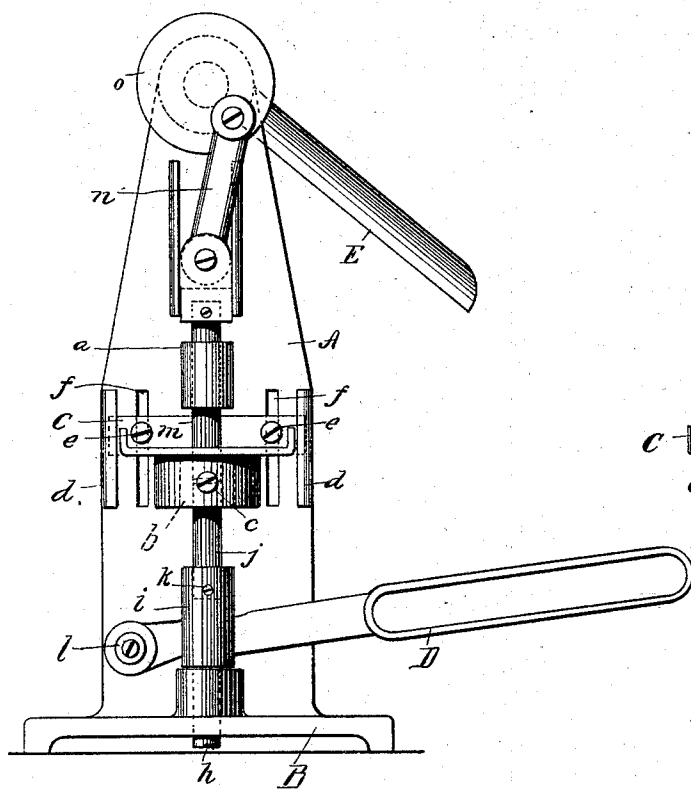
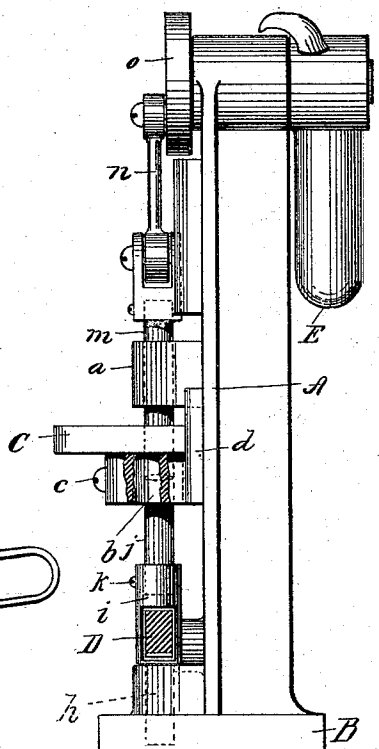


Fig. 2



WITNESSES:

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INVENTOR

Charles A. Tatum,
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UNITED STATES PATENT OFFICE.

CHARLES A. TATUM, OF NEW YORK, N. Y., ASSIGNOR TO WHITALL, TATUM
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TABLET-MACHINE.

SPECIFICATION forming part of Letters Patent No. 541,895, dated July 2, 1895.

Application filed February 6, 1895. Serial No. 537,515. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. TATUM, a resident of the city, county, and State of New York, have invented certain new and useful Improvements in Tablet-Machines, of which the following is a specification.

My invention relates to tablet machines, and has for its object to produce a simple, cheap and efficient machine for making tablets wherein the plungers can be removed and replaced at will and the capacity of the mold regulated by adjustment of the die to suit the various sized tablets it may be desired to mold.

To this end my invention consists in the construction and arrangement of devices herein after set forth and claimed.

My invention will be understood by reference to the accompanying drawings, where-

Figure 1 is a front elevation of a tablet machine embodying my invention. Fig. 2 is a similar view of the same, taken at right angles to the view illustrated in Fig. 1, with parts broken away.

In the drawings, A indicates a suitable standard. This standard rests upon a base B and is provided with a guide *a* for the upper plunger. The standard is also provided with a receiving table C for the powder, and a removable die *b* which is mounted in the table and held in position in any suitable manner, such as by means of a set-screw *c*. This table can be vertically adjusted by suitable means, such as by guides *d* and set-screws *e* which enter slots *f* in the standard A. The base B is apertured for the reception of a sliding rod *h* which is provided with a slotted sleeve *i*, into which sleeve the counter or lower plunger *j* is entered and secured in place, as by a set-screw *k*. This counter enters the die *b* for purposes which will be hereinafter more fully described.

Journalled upon a pin *l* upon the standard A is a handle D which passes through the slot in the sleeve *i*. An upper plunger *m* works in the guide *a* and may be operated by any suitable means, as by the pivoted handle E and link *n* pivoted eccentrically to a disk *o* carried by the handle E. The plunger *m* is

preferably removably secured in the operating means so that it may be replaced by a plunger of different size and formation. The handle D may, if desired, be connected with the handle E of the lower plunger or counter *j* in any suitable manner.

It is obvious that a vertical adjustment of the table C with relation to the lower plunger or counter *j* will operate to regulate the depth of the mold.

If it is desired to make tablets of different dimensions and configuration from that for which the machine is set, it is merely necessary to replace the plungers and die with those of the desired size and formation.

The operation of my improved machine is as follows: The machine having been set with plungers and a die of the desired size and formation and the platform having been adjusted to give the proper predetermined depth for the mold, the powder is poured therein and the plunger *m* is brought down into the mold by the handle E to compact the powder into a tablet. When the tablet has been formed, the plunger is raised out of the die and the handle D is operated to eject the tablet from the mold.

Now while I have shown and described one form of my invention, I would have it understood that I do not mean to thereby limit myself to the particular arrangement and construction of parts herein shown, as the parts, their construction and arrangement may be varied without departing from the spirit of my invention.

What I claim, and desire to secure by Letters Patent, is—

In a tablet machine, the combination of a plunger or counter, a table C carrying a die into which the counter is entered, a slotted standard A, set-screws *e* serving to enter the slots and to secure the table C in its adjusted position, and a plunger entering the die and co-operating with the die and counter, substantially as described.

CHARLES A. TATUM.

Witnesses:

GEO. E. MORSE,
CHARLES E. SMITH.