

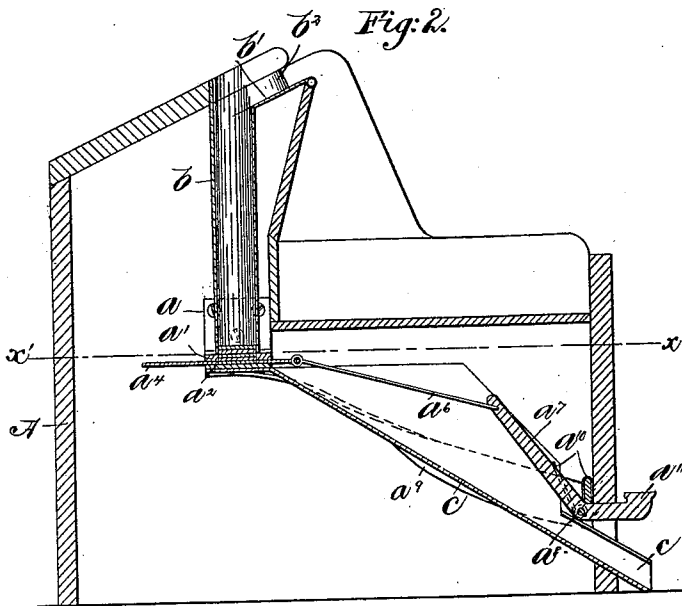
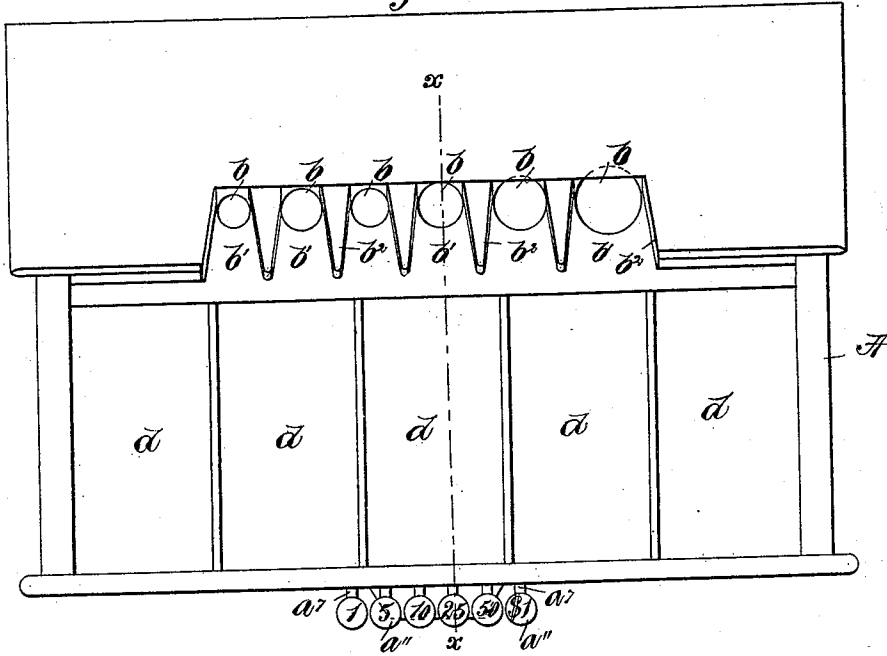
(No Model.)

2 Sheets—Sheet 1.

M. D. SWEENEY.
MONEY CHANGING MACHINE.

No. 463,375.

Fig. 1. Patented Nov. 17, 1891.



Witnesses,

J. C. Bunting.
Fred S. Cumber

Inventor,

Michael D. Sweeney,
by Crosby & Gregory attys

(No Model.)

2 Sheets—Sheet 2.

M. D. SWEENEY.
MONEY CHANGING MACHINE.

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Fig. 3.

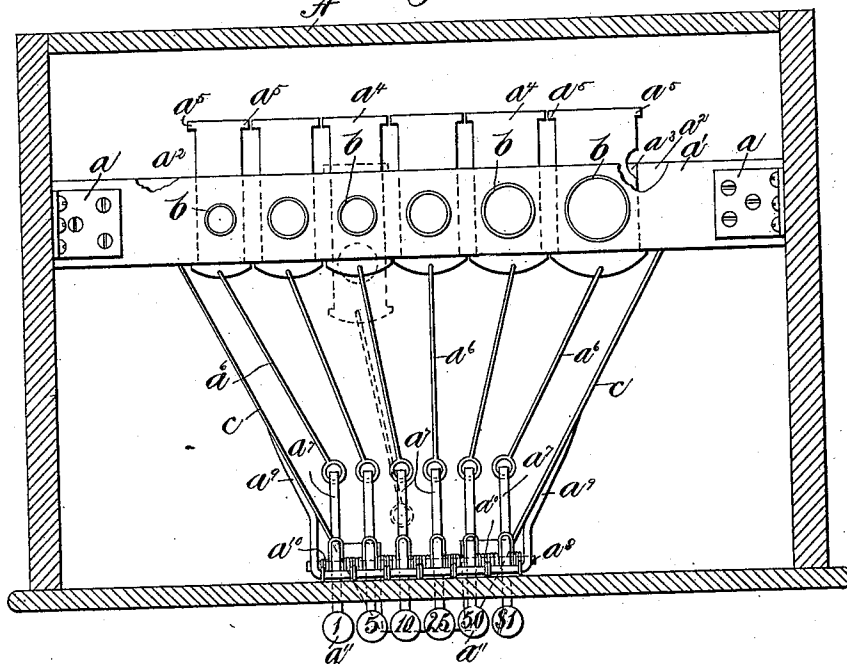
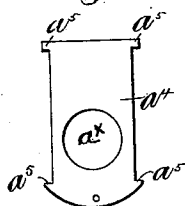


Fig. 4.



Witnesses:
Geo. C. Huntington.
Fred. S. Greenleaf.

Inventor
Michael D. Sweeney
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UNITED STATES PATENT OFFICE.

MICHAEL D. SWEENEY, OF BERKELEY, RHODE ISLAND.

MONEY-CHANGING MACHINE.

SPECIFICATION forming part of Letters Patent No. 463,375, dated November 17, 1891.

Application filed September 8, 1890. Serial No. 364,244. (No model.)

To all whom it may concern:

Be it known that I, MICHAEL D. SWEENEY, of Berkeley, county of Providence, State of Rhode Island, have invented an Improvement in Money-Changing Machines, of which the following description, in connection with the accompanying drawings, is a specification, like letters and figures on the drawings representing like parts.

This invention has for its object to improve machines of the class employed for holding and delivering money; and the particular features of which my invention consists will be hereinafter described, and set forth in the claims.

Figure 1 shows in plan view a machine embodying this invention; Fig. 2, a vertical section taken on the dotted line xx , Fig. 1; Fig. 3, a horizontal section taken on the dotted line $x'x'$, Fig. 2; and Fig. 4 shows one of the carrying-plates by itself.

Referring to the drawings, the inclosing-case A, of desired shape and construction, has secured to its inner side walls the brackets a , (see Fig. 2,) which support the base-plate a' , provided with a series of holes, which receive the lower ends of the vertically-arranged coin-receiving tubes b . The tubes b vary in diameter to accommodate coins of various sizes and project upwardly to the top of the casing, as shown in Fig. 2, where each tube has substantially one-half cut away, as shown, and is fitted with an inclined table b' , leading to its cut-away portion or mouth, and having the converging side walls b^2 , to be hereinafter referred to. The base-plate a' has bolted or otherwise secured to its under side a bottom plate a^2 , cut away beneath each tube b , leaving openings a^3 , (see Fig. 3,) of depth equal to the thickness of the coin for that tube, and the said openings a^3 receive the horizontally-movable carrying-plates a^4 , each plate having a hole a^x , (see Fig. 4,) of equal diameter with the inside of its coin-tube b , with which it normally registers. Each carrying-plate a^4 has ears or stops a^5 at or near its opposite ends to limit the movement of the plate in either direction, and at its front end the said plate has connected to it the link a^6 , connected at its opposite end to one arm of the angle-lever or key a^7 , pivoted at a^8 in a frame a^9 , carried by or secured to the bottom plate

a^2 . (See Figs. 2 and 3.) The several angle levers or keys a^7 are acted upon by the spiral or other springs a^{10} , which return the said keys and carrying-plates always to their normal positions, as shown. The keys a^7 are fitted with suitable finger-tips a^{11} , which may indicate, as shown, the denomination of the coin controlled thereby. A chute c conducts the various coins as they are withdrawn from their respective tubes to a convenient point, preferably below and slightly in front of the casing A, as shown.

In practice the tubes b are filled with coins, each tube containing coins of a different denomination, the lowermost coin in each tube resting upon the bottom plate a^2 and surrounded laterally by the carrying-plate a^4 , (see Fig. 2,) so that when the said plate is moved it will carry with it the coins. When it is desired to make a certain amount in change—as, for instance, thirty-six cents—the keys marked “25,” “10,” and “1” are depressed, and, acting through their respective mechanisms, will withdraw from the tubes a twenty-five-cent, ten-cent, and one-cent piece, dropping the same in the chute c , when they will slide into the hand placed at its mouth. Any other amount may as well be selected.

An important feature of my improved machine is the contracting of the operating-keys into a small space at one point, so that two, or even all of them, may be operated at one movement of the hand. In machines at present constructed it is necessary to go through as many operations or movements as there are pieces of money to be delivered, the pieces being delivered one at a time, while in my device all the pieces may be delivered at once. The inclined tables b' are of material assistance in placing the coins in the tubes, which may be done as they are received.

I have herein represented the casing as provided with several pockets d for the reception of bills and notes.

I do not desire to limit my invention to the particular construction herein shown, as the same may be varied without departing from the scope of the invention.

I claim—

1. The combination, with a casing, of coin-receiving tubes b , substantially one-half of

each tube projecting upwardly to the top of the said casing, the other half of each tube being cut away below said top, and the inclined table b' , leading to said cut-away portions and
5 provided with side walls b^2 , converging to said cut-away portions, substantially as described.

2. The combination, with a casing and tubes b , of the carrying-plate a^4 , having limiting ears or stops a^5 at or near its end, the
10 rigid links a^6 , keys a^7 , and the springs a^{10} , acting upon said keys to operate substantially as described.

3. A casing, tubes b , having cut-away portions, and the inclined tables b' , leading to
15 said cut-away portions and provided with

side walls b^2 , converging to said cut-away portions, and the chute c , combined with the recessed bottom plate a^2 , the perforated plates a^4 , rigid links a^6 , keys a^7 , and springs a^{10} , each
20 plate having independent actuating mechanism, the said keys being concentrated in one bank, whereby one or all may be operated simultaneously by one movement, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

MICHAEL D. SWEENEY.

Witnesses:

GEO. W. GREGORY,
FREDERICK L. EMERY.