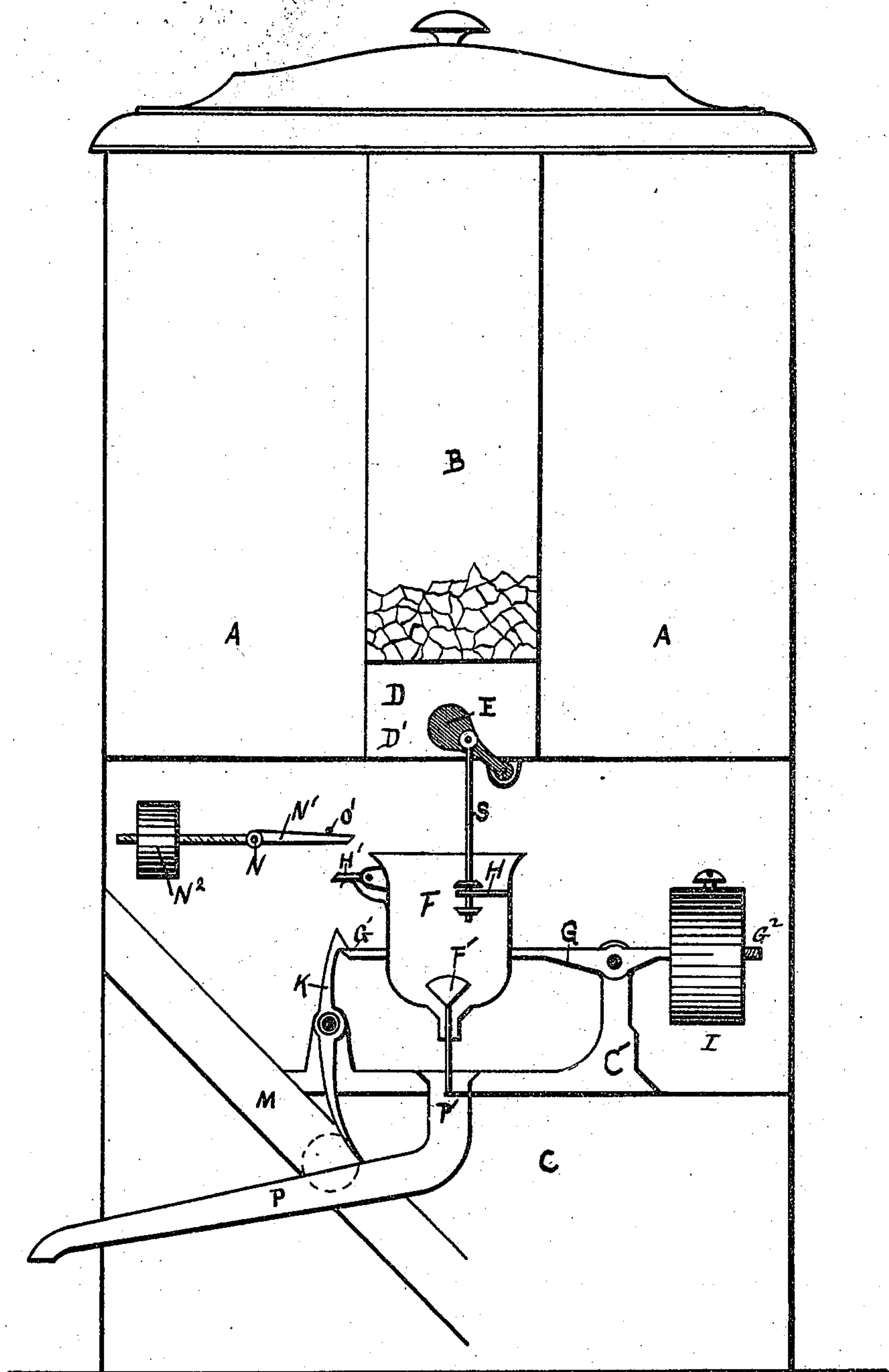


(No Model.)

H. HOESCHEN.
COIN CONTROLLED VENDING MACHINE.

No. 502,817.

Patented Aug. 8, 1893.



WITNESSES:

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HENRY HOESCHEN, OF OMAHA, NEBRASKA.

COIN-CONTROLLED VENDING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 502,817, dated August 8, 1893.

Application filed April 17, 1893. Serial No. 470,800. (No model.)

To all whom it may concern:

Be it known that I, HENRY HOESCHEN, of Omaha, in the county of Douglas and State of Nebraska, have invented certain useful Improvements in Coin-Controlled Vending-Machines; and I do hereby declare that the following is a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which forms a part of this specification.

This invention relates to a coin operated vending machine.

The object of this invention is to provide a coin operated device, for vending liquids; and in furtherance of this object, the invention consists in the construction, combination and arrangement of parts, as hereinafter more fully described and finally pointed out in the claims.

In the accompanying drawing, the figure represents a vertical sectional view of my improved vending apparatus showing the cup valve as opened.

Similar letters of reference refer to corresponding parts.

The figure represents a suitable vending urn, which is provided with three compartments; the reservoir A, the ice chamber B, and the working compartment C. The reservoir A, comprises the upper and larger section of the urn within the center of which is disposed the ice chamber B. Below the ice chamber is provided a suitable auxiliary chamber D, provided with a transverse partition D', within which is a suitable valve opening, over which the pivoted slide valve E is adapted to reciprocate in opening and closing said valve-way. Upon the inside the valve opening is protected by means of a suitable strainer, so that no coarse particles, floating within the liquid being sold, may clog the valve.

Mounted below the valve opening, upon a suitable standard C' is the pivoted vending cup F. This cup is of a suitable configuration, and provided centrally with a valve seating F'. In the drawing I have shown an ordinary weighted conical tumbler provided within a projecting stem which rests with a

suitable seating, when the valve is closed. The cup F is fixed to the pivoted scale-beam G, and provided within with the lug H, and exteriorly with the spring actuated dog H', which is pivoted within suitable ears of the cup. The scale-beam G, encompasses the cup F and is provided at one end, with the pointed nose G' and at the other with the threaded stem G², adjustably holding the counterpoise I.

Positioned so as to engage the nose G' of the scale-beam G, is the pivoted gravity actuated coin lever K having its lower end projecting into the coin chute M, so that when the deposited coin descends it engages said lever, as described more fully hereinafter. At the upper end this coin lever is provided with a hooked nosing adapted to engage the cup-end G' of the beam G.

Pivoted upon a suitable transverse shaft N, is the auxiliary scale-beam N', so arranged that when the pivoted dog H', is carried upward, it catches and retains said dog, until the weight of the vending cup F overbalances the weight N² of the scale-beam N' and so permits the cup F to drop into its emptying or unloading position as shown in the drawing.

Leading from below the vending cup F, to without the urn, is the duct or delivery tube P while the rod S, provided with two adjustable nibs and passing through the lug H, connects the oscillating vending cup F to the valve E which is preferably an ordinary slide valve, which is operated to open or close, as the cup F is raised or permitted to drop.

If desired the weights I and N² of the scale beams may be eliminated and replaced by suitable adjustable springs.

When all the instrumentalities have been properly constructed and assembled, the operation of my device is as follows: The reservoir A having been charged, the vending cup F is locked, being held by the coin lever K, and in which position, the stem of the valve F rests upon a lug P', so as to keep the cup open. Now when a coin is deposited it glides down the chute M, and engages the coin lever K, carrying it away from the nose G', releasing the scale beam provided with the cup F which is promptly carried upward, by virtue of the weight I. As the cup is car-

ried upward, the valve F' is promptly closed while at the same instant the valve E has been forced open by means of the connecting rod S, thus permitting the liquid in the reservoir to flow into the vending cup. As the cup passes into its upward extreme position, the dog H' is locked upon the projecting end of the auxiliary scale beam N', until the liquid within the cup F outweighs the weight N², when said weight will be carried upward, and thus permit the cup to fall into its locked position, during which operation, the valves F' and E are simultaneously operated, one being opened and the other closed. The liquid will of course now escape from the cup, through the tube P and into a suitable receptacle without. This operation would be repeated upon the deposit of following coins.

The weights I and N² may each be nicely adjusted upon their respective scale beams, so that the liquid may be weighed.

Having thus described my said invention and the best means I know of operating the same, what I claim as new, and desire to secure by United States Letters Patent, is—

1. In a coin operated vending machine, the combination with the casing, the delivery tube and coin chute, of the following instrumentalities to wit: a supporting standard, a pivoted vending cup provided with a valve, a coin lever adapted to detachably hold said cup in one of its extreme positions, an auxiliary scale beam adapted to hold said cup in its other extreme position, a spring actuated dog adapted to lock upon said scale beam, and a rod connecting said vending cup to a valve of the reservoir, all of said effects being

arranged to operate substantially as and for the purpose set forth.

2. In a coin operated vending machine, the combination with a reservoir delivery tube and coin chute of a pivoted and vertically oscillating vending cup, said cup having a central valve and being provided with an adjustable counterpoise and a hooked coin operated gravity actuated lever, a spring actuated dog secured to said cup and adapted to engage the free end of an auxiliary scale beam adapted to detachably hold said cup while in its extreme upward position, a valve within said reservoir, an adjustable rod connecting said reservoir valve and vending cup, and a stop to open the valve in said vending cup when in its lowest position, all substantially as and for the purpose set forth.

3. The combination with the reservoir A, having the central ice chamber B, of the auxiliary valve chamber D, the valve E secured to said valve chamber, the weighted and pivoted beam G, supporting the cup F, said cup being provided with a valve F', ear H and spring actuated dog H', the gravity actuated coin controlled lever K adapted to engage said cup beam G, the auxiliary scale beam N' adapted to engage the dog H', and the adjusting rod S, connecting said valve E and cup F, all substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

HENRY HOESCHEN.

Witnesses:

E. A. BENSON,

F. W. CARMICHAEL.