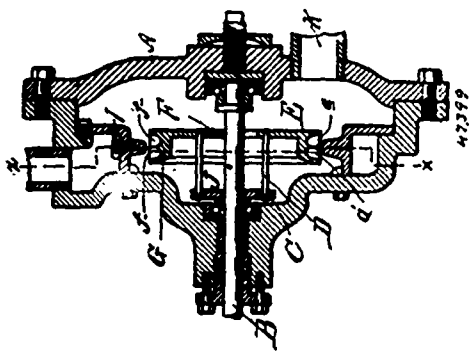
lever S, hinged rearwardly to the breech bolt locking-block, a projecting lug at the fore-end of said lever, and an operating lever K for actuating said lug, substantially as described. 4th. In a fire-arm, an operating lever K, the lug K^1 at the base thereof, a breech-block, a locking-block therefor, a lever S, operating said locking-block, and a lug on said lever, substantially as described. 5th. In combination with the breech-block, a locking-block S^1 adapted to slide vertically, and having an aperture T, a pin V situated partly within and partly beneath said aperture, substantially as described. 6th. The combination, with a breech-block, a locking-block therefor adapted to slide vertically in grooves and having an aperture T, of a fixed pin V, and a spring U whereby the depression of the said block compresses said spring and whereby the spring is adapted to raise and support the block in position behind the breech-bolt, substantially as described. 7th. The combination, with a casing of a firearm, a breech-block, an extractor pivoted to said breech-block and inclined planes E^3 and E^4 formed in said casing, whereby the said extractor is tilted on its pivot, substantially as described. 8th. The combination, with a breech-block, of an extractor E^1, a depression E^2 in the block, a slot E^6, and a rearward extension of the latter provided with inclined planes as E^5 and E^4, substantially as described. 9th. In a firearm, a body having side entry and exit openings, the former higher than the other, said openings being connected at their base by a laterally inclined table, substantially as described. 10th. In a firearm, a body having side entry and exit openings, an inclined table between the openings and dogs controlling the entry and exit of the cartridge, substantially as described. 11th. In a firearm, a pivoted lever 2, a cut-off dog 4 and operating connections between the lever and dog, and between the lever 2, and the operating lever K, substantially as described. 12th. The combination, with a transverse rocking lever, of dogs 4 and 3, said dogs being pivoted to said lever, an operating lever K and connectons thereto from said rocking lever whereby the dogs are operated alternately to raise and lower the same, substantially as described. 13th. The combination, with cut-off dogs as 4 and 3, a pivoted lever 2 connected thereto, and a pivoted lever K having a transverse projection K^2 on its upper inner end, said projection being adapted to bear down upon and depress the rear of lever 2, when the lever handle is operated, substantially as described. 14th. In combination, an operating lever K, slotted at I, pivoted at W, lugs K^1 and K^2, a pin G, a slotted connection therewith, a lever S, a breech-block lock operated thereby, a lever 2, and cut-off dogs operated thereby, the lug K operating the lever S, and the lug K^2, the lever 2, substantially as described. 15th. In combination, with a laterally inclined table A^1, a dog 3 adapted to be lowered when an empty shell or cartridge has been retracted so as to allow same to leave the arm, and a dog 4 adapted to be raised whilst 3 is lowered, said dog 4 being adapted to be again lowered, and dog 3 raised so as to allow a new cartridge to enter the arm in front of the retracted breech-bolt, substantially as described. 16th. In combination, with the body of a firearm A, a magazine receiver as B^3 at the upper right side of said body, said receiver having three vertical sides and an open front and a sloping base, substantially as described. 17th. In a firearm, in combination with a magazine receiver, a magazine having a shoulder 18, and a spring 16 adapted to automatically hold in place said magazine when the latter has been inserted, whilst allowing easy insertion and withdrawal of the same, substantially as described. 18th. In a firearm, in combination with a magazine receiver, a magazine having shoulders and a bolt 17 having fore and rear ends 20 and 19 respectively, substantially as described. 19th. In a firearm having a magazine receiver, a magazine having shoulders 18, a spring 16 at one side thereof, and a bolt 17 at the other side, substantially as described. 20th. The combination, with a firearm body having apertures 13 and 14, of a sloping table, and a magazine or cartridge receiver having a sloping base of which the said table A^1 is a downward lateral continuation, substantially as described.

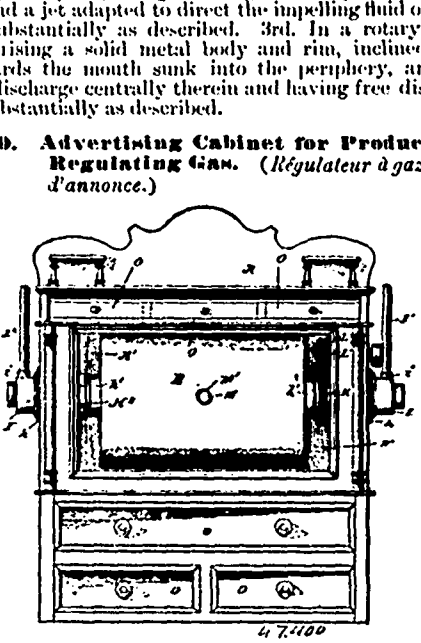
No. 47,399. Rotary Engine. (*Machine rotative.*)



The Consolidated Car Heating Company, assignee of James Finney McElroy, both of Albany, New York, U.S.A., 7th November, 1894; 6 years.

Claim.—1st. In a rotary motor, a wheel having peripheral pockets, a central dividing flange therein, and a jet adapted to direct the impelling fluid or gas upon the flange, whereby the discharge or exhaust is deflected towards the edge, substantially as described. 2nd. In a rotary motor, a wheel having peripheral pockets inclined, and enlarging from the bottom out, said pockets being arranged in pairs, a ridge or flange dividing the members of each pair, and a jet adapted to direct the impelling fluid or gas upon the ridge, substantially as described. 3rd. In a rotary motor, a wheel comprising a solid metal body and rim, inclined pockets, flaring towards the mouth sunk into the periphery, and nozzles adapted to discharge centrally therein and having free discharge at the sides, substantially as described.

No. 47,400. Advertising Cabinet for Producing and Regulating Gas. (*Régulateur à gaz et cabinet d'annonce.*)



John Ruthven, Topeka, Kansas, U.S.A., 7th November, 1894; 6 years.

Claim.—1st. The combination with the case or cabinet, and the chamber therein, of the suction cylinder and regulator within said chamber, the L-pipes one at each end forming respectively the vapour inlet and outlet, and having their vertical arms within said cylinder, said pipes forming bearings for said cylinder, and the perforated central tube or pipe forming a centre bearing for said cylinder, substantially as specified. 2nd. The combination with the case or cabinet having the interior chamber, of the suction cylinder and regulator within said chamber, the L-shaped pipes projecting one through each end wall of the cabinet and forming the gas inlet and outlet, their vertical arms extending into the opposite end portions of said cylinder, the central perforated tube having bearings at its ends, the central rod or shaft, and the caps to which the inlet and outlet pipes are respectively connected, substantially as specified. 3rd. The combination of the L-pipes, their bearing pipes or tubes, the cylinder into the end portions of which the vertical arms of said L-pipes project, the bearing sleeves or bushings in said cylinder, the stuffing-boxes, the central perforated pipe or tube engaging said bearing pipes at its ends, the caps on the outer projecting ends of said L-pipes, the inlet and outlet pipes connected to said caps, the central rod or shaft and the driving gear, substantially as specified. 4th. The herein described suction cylinder and vapour regulator, comprising a rotary cylinder designed to be partially filled with a liquid, the spirally arranged passages or chambers therein, the closed end chambers, an inlet pipe communicating with one of said end chambers, and an outlet pipe communicating with the other of said chambers, and a central perforated pipe, substantially as specified. 5th. The herein described suction cylinder and vapour regulator, comprising a rotary cylinder designed to be partially filled with a liquid, its bearings and driving gear, the central portion of said cylinder being divided into a series of spiral chambers or passages, the end chambers into which said chambers or passages open, a vapour inlet communicating with one of said end chambers, and a vapour outlet communicating with the other of said chambers, and a central perforated tube or pipe, substantially as specified, 6th. The combination, with the suction cylinder having the closed end chambers, and the series of spiral chambers or passages connecting said end chambers and communicating therewith by oppositely directed openings, of the L-pipes forming bearings for said cylinder and having their vertical arms projecting into the upper portions of said end chambers, said pipes forming respectively the vapour inlet and outlet, and the central perforated pipe or tube, substantially as specified. 7th. A suction cylinder and vapour regulator, comprising a closed rotary cylinder provided with a vapour inlet and outlet and designed to be partially filled with a liquid, a series of compartments or passages therein, and a central perforated tube or pipe through which the liquid seeks its level as the cylinder rotates, substantially as specified.

No. 47,401. Drier. (*Séchoir*)

Thomas Craney, Bay City, Michigan, U.S.A., 7th November, 1894; 6 years.

Claim.—1st. In a drier, a tower, a vertical series of hollow rotat-