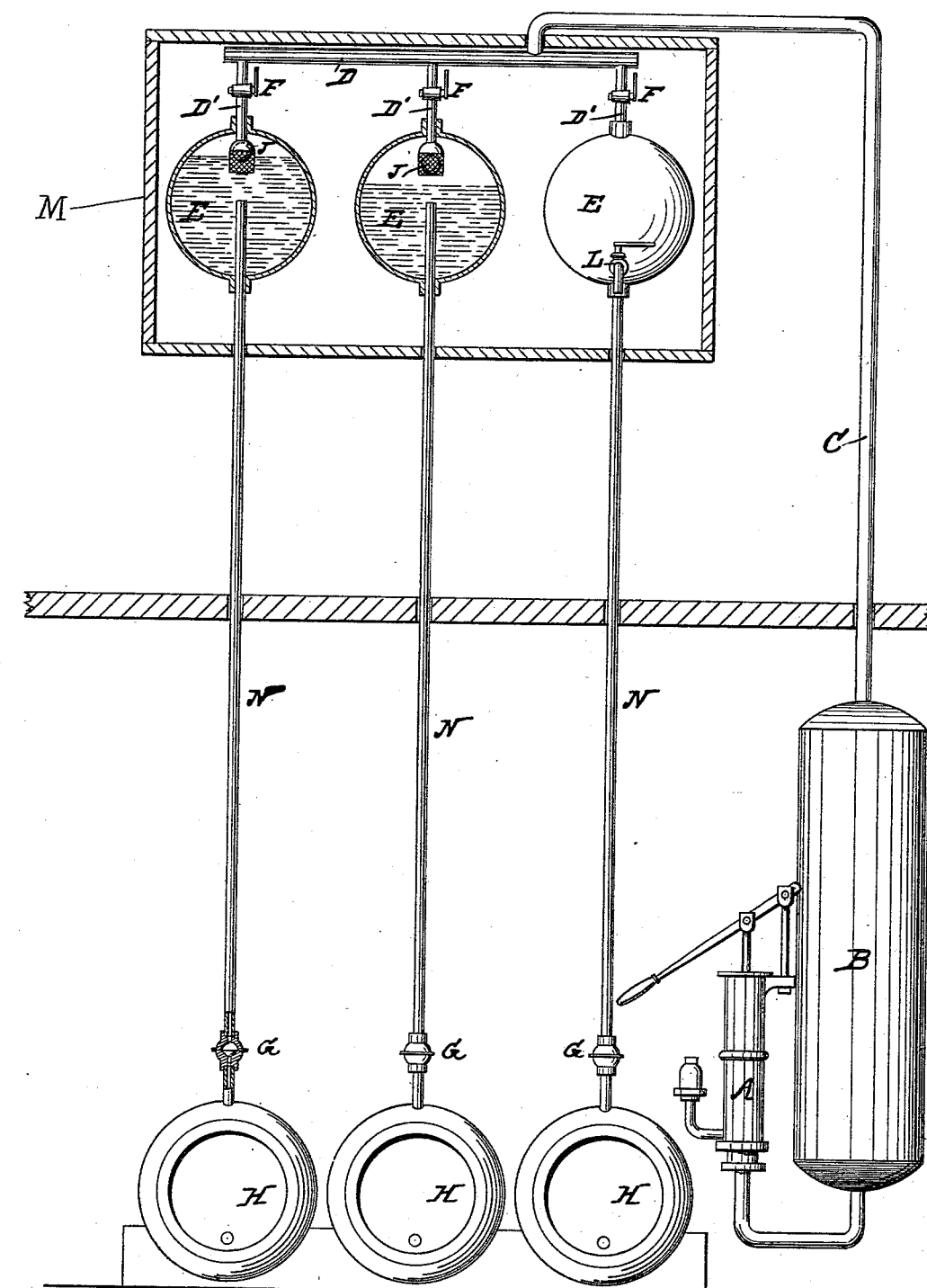


(No Model.)

E. T. GLENNAN & J. HAMILTON.
PNEUMATIC BEER PUMP.

No. 420.052.

Patented Jan. 28, 1890.



WITNESSES

W. A. Lowe
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INVENTORS

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UNITED STATES PATENT OFFICE.

EDWARD T. GLENNAN, OF NEW YORK, AND JOHN HAMILTON, OF LONG ISLAND CITY, NEW YORK.

PNEUMATIC BEER-PUMP.

SPECIFICATION forming part of Letters Patent No. 420,052, dated January 28, 1890.

Application filed April 26, 1889. Serial No. 308,687. (No model.)

To all whom it may concern:

Be it known that we, EDWARD T. GLENNAN, of New York, and JOHN HAMILTON, of Long Island City, both in the State of New York, citizens of the United States, have invented a new and useful Pneumatic Beer and Fluid Pump, of which the following is a specification.

Our invention consists of the various improvements fully set forth in the specification and claim.

In the accompanying drawing, a front view of the pump with three connecting receiving-chambers, two of which are in section, is shown.

A represents an air-suction pump, and B a chamber from which the air is drawn out by the action of the pump A to produce a vacuum in said chamber B.

C is a pipe connecting the vacuum-chamber B with a pipe D, which latter is connected through branch pipes D' with the receiving-chambers E. The branch pipes D' are each provided with a cock or valve F, and enter a short distance into the chambers E, where the ends of the same may be closed by an india-rubber or other ball J, of a light substance, to prevent the beer, ale, or other fluid from entering said pipes whenever the fluid rises in the chamber E above the end of these pipes. These chambers E are connected through pipes N with the barrels H, passing into the same nearly to their bottom, and are

provided with suitable check or non-return valves G. The upper ends of the pipes N pass some distance into the chambers E. The chambers E are provided with discharge-cocks L.

The pipes D D' and chambers E may be surrounded by a suitable casing M, with suitable openings to give access to the handles of the cocks F and L, or the latter may be arranged to come outside of this casing.

The operation is as follows: By means of the pump A the air is drawn out of the chamber B and pipes C and D, so as to create a vacuum in the same. Whenever any liquid contained in either of the barrels H is to be drawn the corresponding cock F is opened, forming thus a communication between its chamber E and the vacuum-chamber B, whereby a partial vacuum will be produced in said chamber E, and thus the fluid from this barrel H is drawn into its chamber E, from which it can be discharged through the cock L.

What we claim is—

The combination of air-pump A, vacuum-chamber B, receiving-chamber E with the barrel H, and suitable pipes to connect the same, as and for the purpose described.

EDWARD T. GLENNAN.
JOHN HAMILTON.

Witnesses:

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