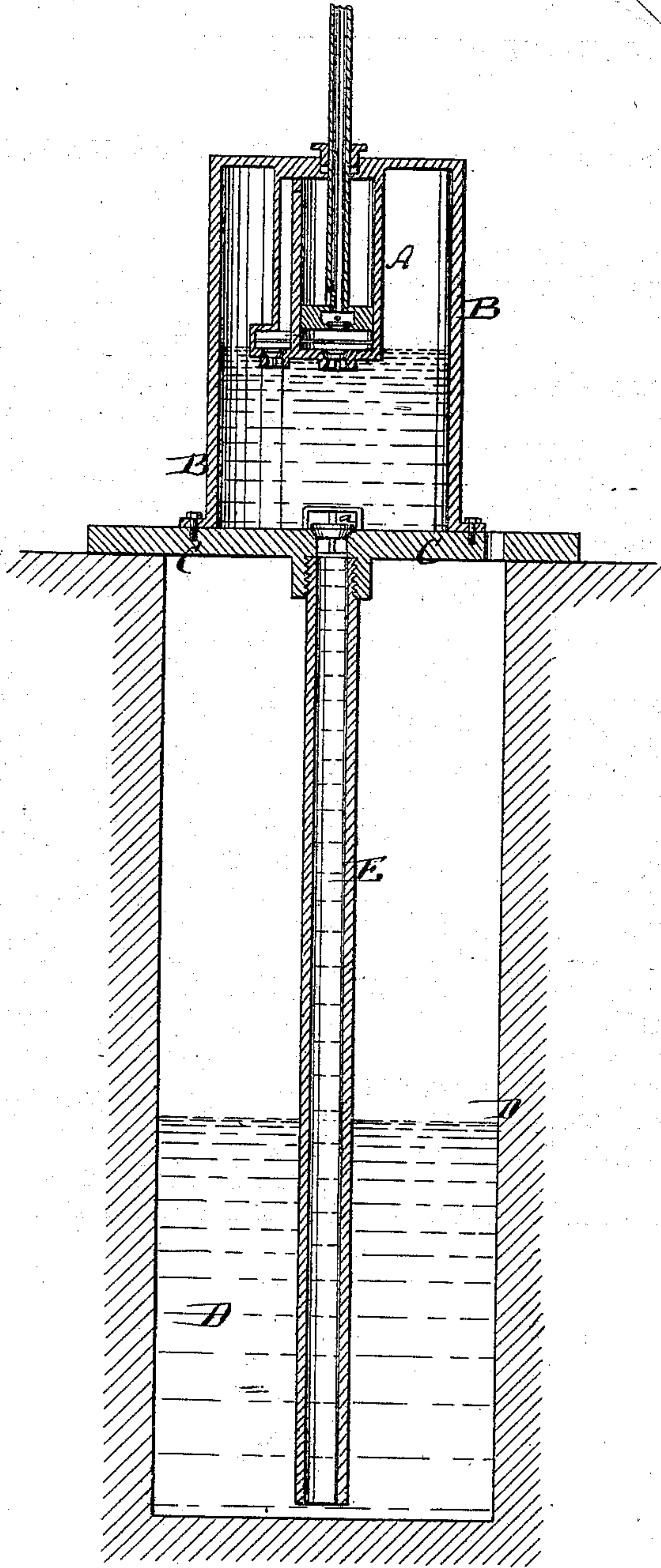


CHARLES WILSON.

Pumps.

No. 127,284.

Patented May 28, 1872.



Witnesses:

A. Bennekenhoff.
Francis McArdy.

Inventor:

C. Wilson
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PER

UNITED STATES PATENT OFFICE.

CHARLES WILSON, OF BRIDGEPORT, CONNECTICUT.

IMPROVEMENT IN PUMPS.

Specification forming part of Letters Patent No. 127,284, dated May 28, 1872.

Specification describing a new and Improved Pump, invented by CHARLES WILSON, of Bridgeport, in the county of Fairfield and State of Connecticut.

The drawing represents a sectional elevation of my invention.

The object of the invention is to combine the advantages of a submerged with those of an elevated pump, and to be able to apply direct power to a pump that draws its supply from a reservoir surrounding the pump. The invention consists in securing the pump within an air-tight case, which is placed above the well, and connected therewith by a drop-pipe having the check-valve. This will permit the application of direct power to the elevated pump and still cause it to draw direct from water contained within the surrounding reservoir and drawn from the well into the same.

A in the drawing represents a pump of suitable construction and arrangement, suspended or supported within a reservoir, B, of cylindrical or other shape. This reservoir is firmly secured upon the cover C of the well D. A pipe, E, extends from the cover C down to the lower part of the well into the water contained therein, and is provided with a check-valve, *a*. The reservoir B is made of metal, glass, or other material so as to be practically air-tight.

As the pump is worked a partial vacuum

will first be created within the reservoir and water drawn into the same from the well until it has risen to the bottom of the pump. The water is then drawn into the pump and discharged in regular streams from its spout. In the reservoir the water can never rise higher than the bottom of the pump, allowing the latter to draw its supply from the liquid with which it is in contact as though it was immersed therein; yet the pump does not share the disadvantages of submerged pumps, such as difficulty of access, imparting a bad taste to the water, &c.

The reservoir can, during the hot season, be surrounded with ice or other cooling matter.

This pump is equally applicable to other matter than water, and may be advantageously employed for pumping air out of or into receptacles, jars, or other things.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent—

The pump A, surrounding air-tight reservoir B C, and pipes E, combined, constructed with the valves mentioned, and applied to a well, D, as described, and for the purpose set forth.

CHARLES WILSON.

Witnesses:

CHAS. M. FRITTS,
JAMES A. MARTIN.