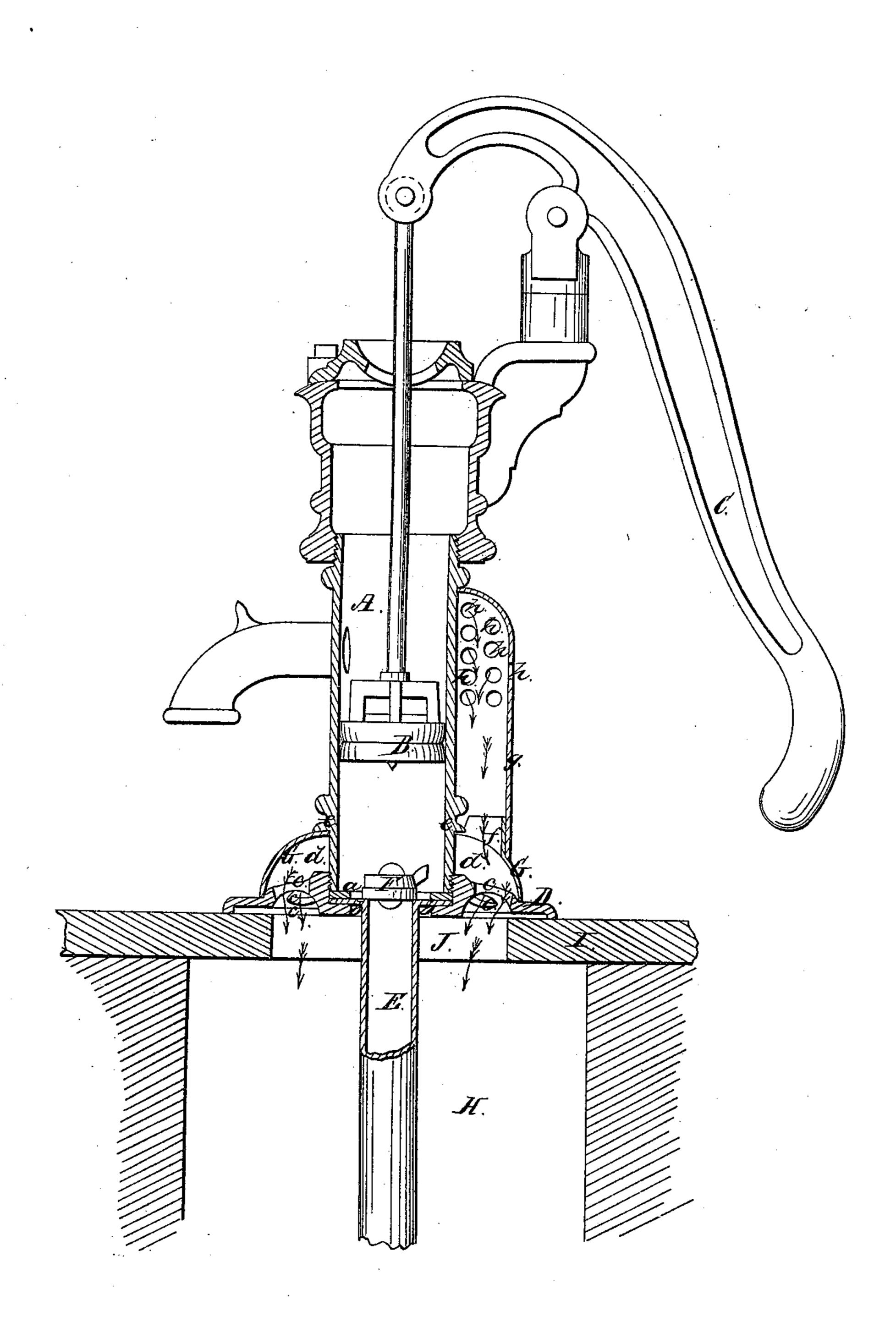
C.N. Lewis,

Fump Lift

Nov. 18660.

Fatented Nov. 17, 1857.



UNITED STATES PATENT OFFICE.

CHARLES N. LEWIS, OF SENECA FALLS, NEW YORK, ASSIGNOR TO HIMSELF AND G. C. KING, OF SAME PLACE.

VENTILATING ATTACHMENT TO BE APPLIED TO PUMPS.

Specification forming part of Letters Patent No. 18,660, dated November 17, 1857; Reissued October 26, 1858, No. 614.

To all whom it may concern:

Be it known that I, CHARLES N. LEWIS, of State of New York, have invented a new 5 and useful Ventilating Attachment or Device to be Applied to Pumps; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed draw-10 ing, making a part of this specification, said drawing being a vertical central section of a pump with my improvement applied to it, also bisected.

This invention has for its object the allow-15 ing of a free access of air to the well for the purpose of ventilation and at the same time preventing dirt, rain, waste water, and foreign substances generally from passing

therein.

The above object is attained by, and the invention therefore consists in, having a perforated base attached to the pump, the perforations being covered by a cap, which is fitted around the lower end of the 25 pump cylinder,—the chamber formed by the cap communicating with a vertical tube attached to the cylinder and perforated at its upper end, the whole being arranged as will be hereinafter fully shown and de-30 scribed.

To enable those skilled in the art to fully understand and construct my invention I

will proceed to describe it.

A represents a pump cylinder, B the pis-35 ton, and C the handle or lever. The above parts are of usual construction and therefore do not require a minute description.

D is the base of the pump and the lower end of the cylinder. A is secured into the 40 center of the base, packing (a) being interposed between the lower end of the cylinder and the bottom of the recess into which the cylinder is screwed. A circular opening (o) is made through the center of the base 45 to receive the suction or induction pipe E over which the usual retaining valve F is placed.

The base D all around the cylinder A is perforated with holes (c) and these holes 50 are covered by a cap G. This cap forms an annular chamber (d) around the lower part of the cylinder A and the upper edge of the

cap is fitted underneath a flanch (e) on the cylinder A. The lower edge of the cap Seneca Falls, in the county of Seneca and | rests upon the base D. The cap is not per- 55 manently attached to the pump cylinder nor to the base.

> To the cap G a short square and vertical tube (f) is attached. This tube is fitted within the lower end of a square tube (g) 60 which is attached to the side of the cylinder A. The tube (g) extends upward a suitable height and has the upper parts of its sides perforated with holes (h).

> From the above description of parts it 65 will be seen that the air passes through the perforations (h) down the tube (g) into the chamber (d) and thence through the holes (c) into the well H. The base D being screwed down on the platform I, and 70 over an opening J therein. A free passage is therefore allowed for the air to pass down into the well while dirt, waste water and foreign substances generally which usually pass down into wells are by this improve- 75 ment prevented from entering therein.

> I do not claim, broadly, the ventilation of wells, by means of air tubes leading from the surface of the ground to the interior of the well; for I am aware that it is old. 80 An example may be seen in the patent of D. Bartlett, 1856. But to the best of my knowledge and belief, it is a new combination to unite a perforated ventilating chamber and base with the pump barrel in such 85 a manner that the ventilator shall constitute a part of the pump; whereby when the pump is applied, the ventilator is also applied and becomes operative from the moment the pump is set.

Having thus described my invention, what I claim and desire to secure by Letters Pat-

ent, is:—

The arrangement and combination of the perforated base D, cap G, and perforated 95 tube (g) with the pump barrel A, as herein set forth, whereby the ventilator becomes attached to and forms a part of the pump, all as herein specified.

CHARLES N. LEWIS.

Witnesses:

HENRY HENION, G. H. Lewis.

[FIRST PRINTED 1911.]