

(No Model.)

J. R. HALL.
MUD BUCKET.

No. 386,537.

Patented July 24, 1888.

Fig. 1.

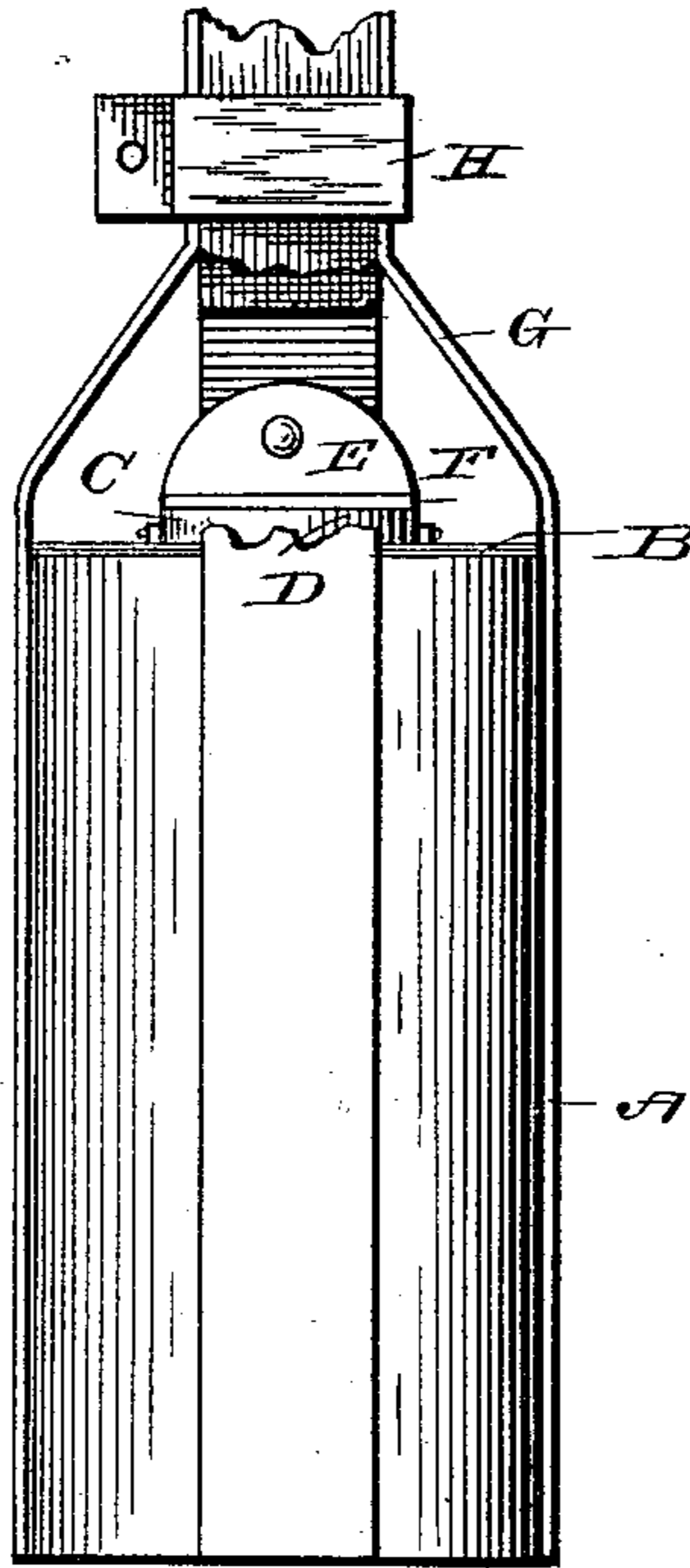
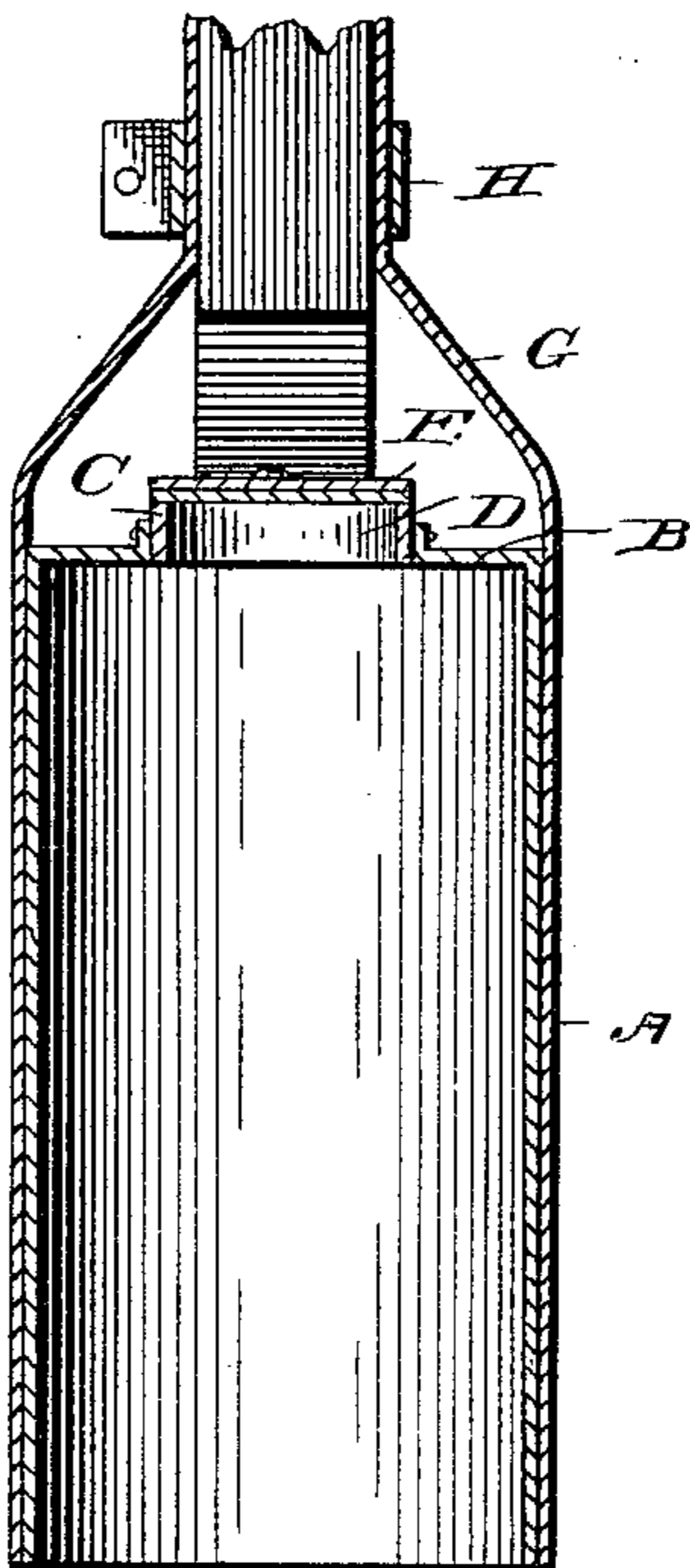


Fig. 2.



Witnesses,

A. B. Blackwood.

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Inventor,

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UNITED STATES PATENT OFFICE.

JOHN ROBERT HALL, OF ROVER, TENNESSEE.

MUD-BUCKET.

SPECIFICATION forming part of Letters Patent No. 386,537, dated July 24, 1888.

Application filed March 8, 1888. Serial No. 266,508. (No model.)

To all whom it may concern:

Be it known that I, JOHN ROBERT HALL, a citizen of the United States, residing at Rover, in the county of Bedford and State of Tennessee, have invented certain new and useful Improvements in Mud-Buckets; and I do declare the following to be 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, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to new and useful improvements in mud-buckets for extracting the mud and sediment from the bottom of wells; and it consists in a cylinder having one end open, the opposite end closed by a valve, and suitable straps for operating the same, the object of my invention being to remove mud and sediment from the bottom of wells without removing the water and descending into the well by a windlass and bucket. I attain this object by means of the peculiar construction and arrangement of the various parts, which will be hereinafter described and claimed, reference being had to the drawings accompanying this application and forming part of the same, in which—

Figure 1 is a perspective view of my invention, and Fig. 2 is a longitudinal section of the same.

Similar letters refer to like parts throughout the drawings.

Referring to the drawings, A represents a cylinder that is formed of any material and of suitable size, one end of which is left open, and the opposite end is provided with a cap or end piece, B, having an upward-projecting annular flange, C, forming a valve-seat, D, with a central opening. A flap-valve, E, is secured by a heel-piece, F, to one edge of said valve-seat D, and the lower face of said valve

is covered with flexible material in the usual manner, the purpose of this construction being that when the open end of the cylinder A is forced down into the mud in the bottom of the well the valve E opens, and when it is withdrawn atmospheric pressure closes valve E, and confines the mud and sediment within said cylinder until it is lifted to the top of the well, when the valve E is released and the contents of cylinder A fall out. Straps G are secured at equal distances by solder or otherwise to the outer face of cylinder A. Said straps G project above the valve E and are drawn together in the form of a square and surrounded by binding-straps H, the free ends of straps H having perforations to receive screw-bolts. By this construction one end of a long rod is inserted between the ends of straps G, and said straps are tightly bound to said rod by the binding straps H. The operator, seizing the rod, forces the open end of the cylinder A down into the mud in the well, and when it is filled withdraws the same by said rod or rope attached to the free end of said rod.

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

As a new article of manufacture, the mud-bucket herein described, consisting of a cylinder, A, of equal radius throughout, suspended by the straps G, conically formed toward their junction with the binding-straps H, the said cylinder containing near its top a diaphragm, B, to which an upwardly-projecting flange, C, is secured, forming a valve-seat, D, for the flap-valve E, whereby the mud is drawn up and maintained in the cylinder by reason of an artificial vacuum above the column and atmospheric pressure beneath the same.

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

JOHN ROBERT HALL.

Witnesses:

R. P. FRIERSON,
W. F. BUCHANAN.