No. 44,876. PATENTED NOV. 1, 1864.

J. McKNIGHT.

DEVICE FOR RAISING WATER.

Fig. 1.

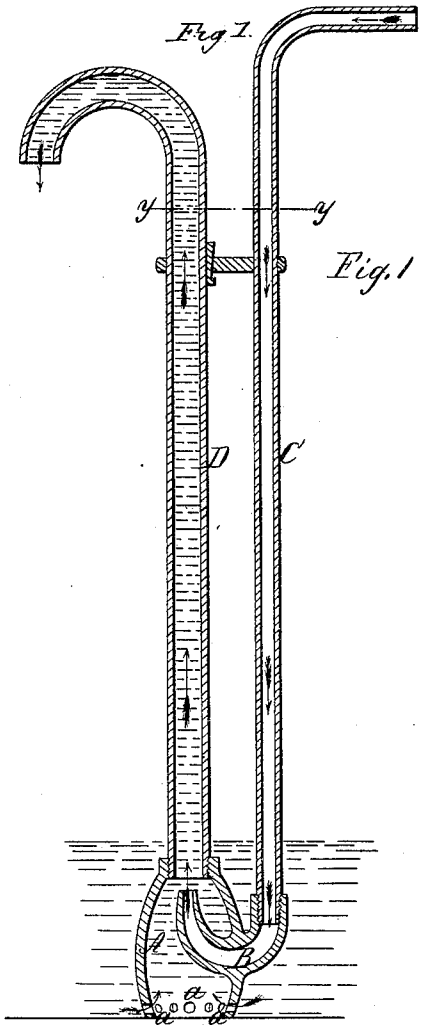
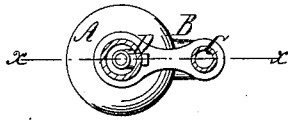


Fig. 1

Fig. 2



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UNITED STATES PATENT OFFICE.

JOSEPH McKNIGHT, OF POMEROY, OHIO.

IMPROVEMENT IN DEVICE FOR RAISING WATER.

Specification forming part of Letters Patent No. 44,876, dated November 1, 1864.

To all whom it may concern:

Be it known that I, JOSEPH McKNIGHT, of Pomeroy, in the county of Meigs and State of Ohio, have invented a new and Improved Apparatus or Device for Raising Water; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a vertical central section of my invention, *x x*, Fig. 2, indicating the line of section; Fig. 2, a horizontal section of the same, taken in the line *y y*, Fig. 1.

Similar letters of reference indicate like parts.

This invention consists in raising water by means of steam passing down through a suitable pipe into a chamber at the bottom of the well or reservoir containing the water to be elevated, said chamber communicating with the water in the well or reservoir, and having a discharge-tube communicating with it which extends upward to the top of the well or reservoir to the point where the water is to be discharged.

A represents a chamber constructed of cast-metal, open at its lower end, and having a series of holes, *a*, in it all around near its lower end.

B is a curved tube, which may be cast in one piece with A, the former passing through the side of the latter and having its inner end projecting upward centrally in A, the outer end of B projecting upward at the outer side of A, as shown clearly in Fig. 1.

C is a pipe the lower end of which is screwed into the outer end of B, and D is a pipe the lower end of which is screwed into the upper end of the chamber A. The pipe D is larger in diameter than C, but the dimensions of these pipes, as well as that of the chamber A, may be varied to suit circumstances.

The implement or device is placed in the well or reservoir, the chamber A resting on the bottom of the former and the water entering the chamber through the holes *a*. Steam is admitted into the pipe C, and the pressure of the same forces the water up the pipe D, the water being discharged from the upper end of D. The holes *a* in the lower part of the chamber A serve as a strainer, and prevent foreign substances from entering the former. Thus it will be seen that the direct pressure of the steam alone is used for forcing up the water.

The invention has been practically tested, and it operates well. The upper part of the pipe D may be curved or bent in any form and in any direction, according to the manner in which it is designed to have the water discharged, and the pipe C may be turned so as to take the steam from any direction.

This invention is well adapted for steam-vessels, coal-barges, and other vessels, and also for mining purposes.

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

The steam-induction pipe C, and water-eduction pipe D, connected with the chamber A, constructed and arranged to operate as and for the purpose herein set forth.

JOSEPH McKNIGHT.

Witnesses:

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