

J. THAYER.
Sand Ejectors.

No. 137,507.

Patented April 1, 1873.

Fig. 1.

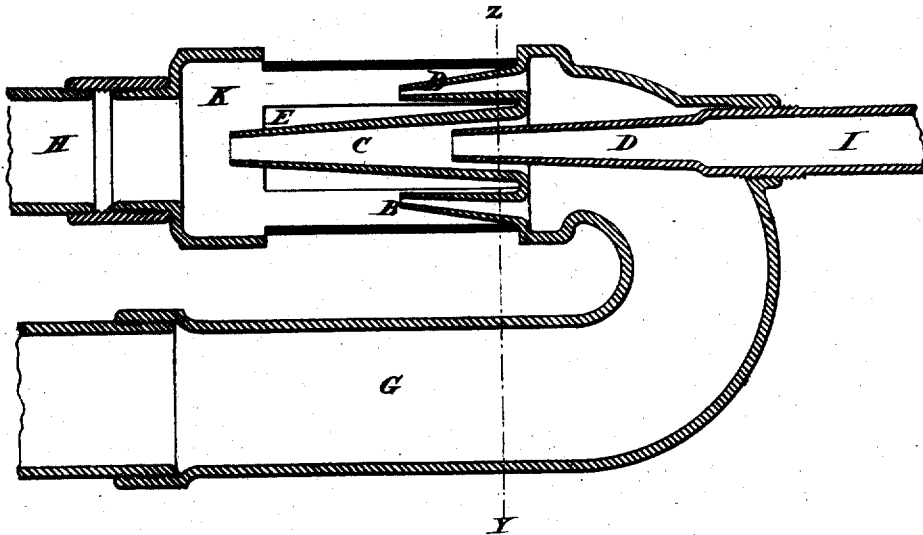
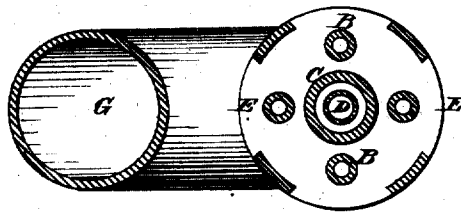


Fig. 2.



Witnesses:
H. S. Miller
D. P. Fowl

Inventor:
Joseph Thayer
Per H. S. Abbott.
Atty.

UNITED STATES PATENT OFFICE.

JOSEPH THAYER, OF TOPEKA, KANSAS, ASSIGNOR, BY MESNE ASSIGNMENT, OF ONE-FOURTH INTEREST TO ELIZA S. SMITH, OF SAME PLACE.

IMPROVEMENT IN SAND-EJECTORS.

Specification forming part of Letters Patent No. **137,507**, dated April 1, 1873; application filed January 3, 1873.

To all whom it may concern:

Be it known that I, JOSEPH THAYER, of the city of Topeka, in the county of Shawnee and State of Kansas, have invented a new and Improved Sand-Ejector; and I do hereby declare that the following is a full and exact description of the same, reference being had to the annexed drawing making a part of this specification—

Figure 1 is a vertical section of my ejector. Fig. 2 is a longitudinal section of the same on the line Y Z, Fig. 1.

G represents the water-pipe, having its lower end turned upward, and on which are formed the jet-tubes B, arranged in a circle around the central one C, through which the water is forced upward into the ascending pipe H. Screwed through the bottom of the pipe G is a tube, D, which extends a short distance up into the tube C, and through

which a current of compressed air is forced. The sand and earth which is to be raised is packed around the lower part of the pipe G, and when the combined current of water and air is forced upward through the jet-tubes, the earth and sand are sucked through the openings E, forced upward into the chamber K, and thence up through the pipe H to the surface.

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

1. The jet-tubes B arranged around the central tube C, substantially as specified.

2. The tubes B C D, when combined with the tubes G H, substantially as set forth.

JOSEPH THAYER.

Witnesses:

B. M. SMITH,
A. ENNES.