G. M. Mowbray,

Well Tubing,

No. 46,925. Patented Mar. 21, 1865.

Fig. 1.

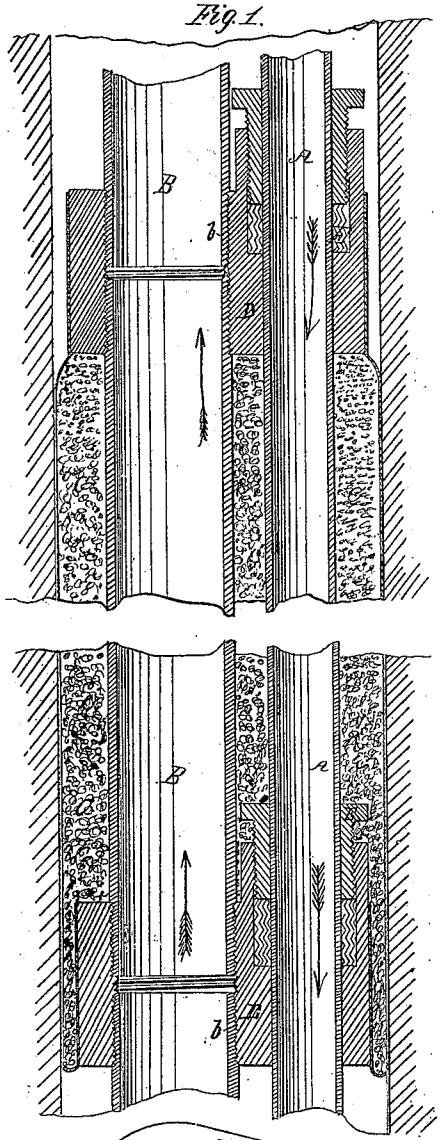
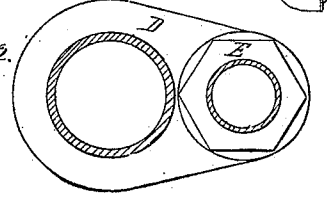


Fig. 2.



Witnesses:
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UNITED STATES PATENT OFFICE.

GEORGE M. MOWBRAY, OF TITUSVILLE, PENNSYLVANIA.

IMPROVEMENT IN OIL-EJECTORS.

Specification forming part of Letters Patent No. **46,925**, dated March 21, 1865.

To all whom it may concern:

Be it known that I, GEORGE M. MOWBRAY, of Titusville, county of Crawford, and State of Pennsylvania, have invented a new and useful Improvement in Ejectors for Oil and other Wells; and I do hereby declare the following to be a full and exact description of the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a vertical section of a portion of an ejecting apparatus illustrating my invention. Fig. 2 is a plan of the coupling hereinafter described.

Similar letters of reference indicate corresponding parts in both figures.

The object of this invention is to provide means whereby the blast-pipe of an ejector can be adjusted in relation to the eduction-pipe without disturbing the seed-bag or other packing device, within which the said pipes are inclosed, to prevent the passage of water around them.

The invention consists in the employment of a coupling at one or both ends of the seed-bag or other packing device, to which coupling the eduction-pipe is securely attached by a screw-thread or other suitable means, and through which coupling the blast-pipe passes in a stuffing-box, so as to admit of raising, lowering, or turning it if necessary, without any disturbance of other parts and without any passage of water around the pipes.

The following description will enable any one skilled in the art to which my invention appertains to fully understand and use the same.

In the drawing, A represents the blast-pipes, and B the eduction-pipe. C represents a seed-bag, employed in customary manner to prevent any descent of surface water or ascent of oil around the pipes. Instead, however, of attaching the said seed-bag immovably to both the pipes, I employ a coupling, D, to connect each end of the seed-bag to the pipes. The eduction-pipe B may be secured to the coupling by a screw, as shown at *b*, and remains stationary.

The blast-pipe A works through a stuffing-box, E, so as to preserve a constantly tight joint, while permitting the said pipe to be moved up or down or turned upon its axis, if necessary. I am thus enabled, without any disturbance of the packing and without moving the eduction-pipe, to adjust the blast-pipe in relation to the eduction-pipe, as may be necessary to adapt them to operate with the best possible effect.

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

The coupling D, when combined with a stuffing-box, E, so constructed that while one pipe is fixed another may be moved in the stuffing-box without disturbing the seed-bag or other packing, substantially as herein described, and for the purposes set forth.

Witnesses: GEO. M. MOWBRAY.

MELVILLE BIGGS,

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