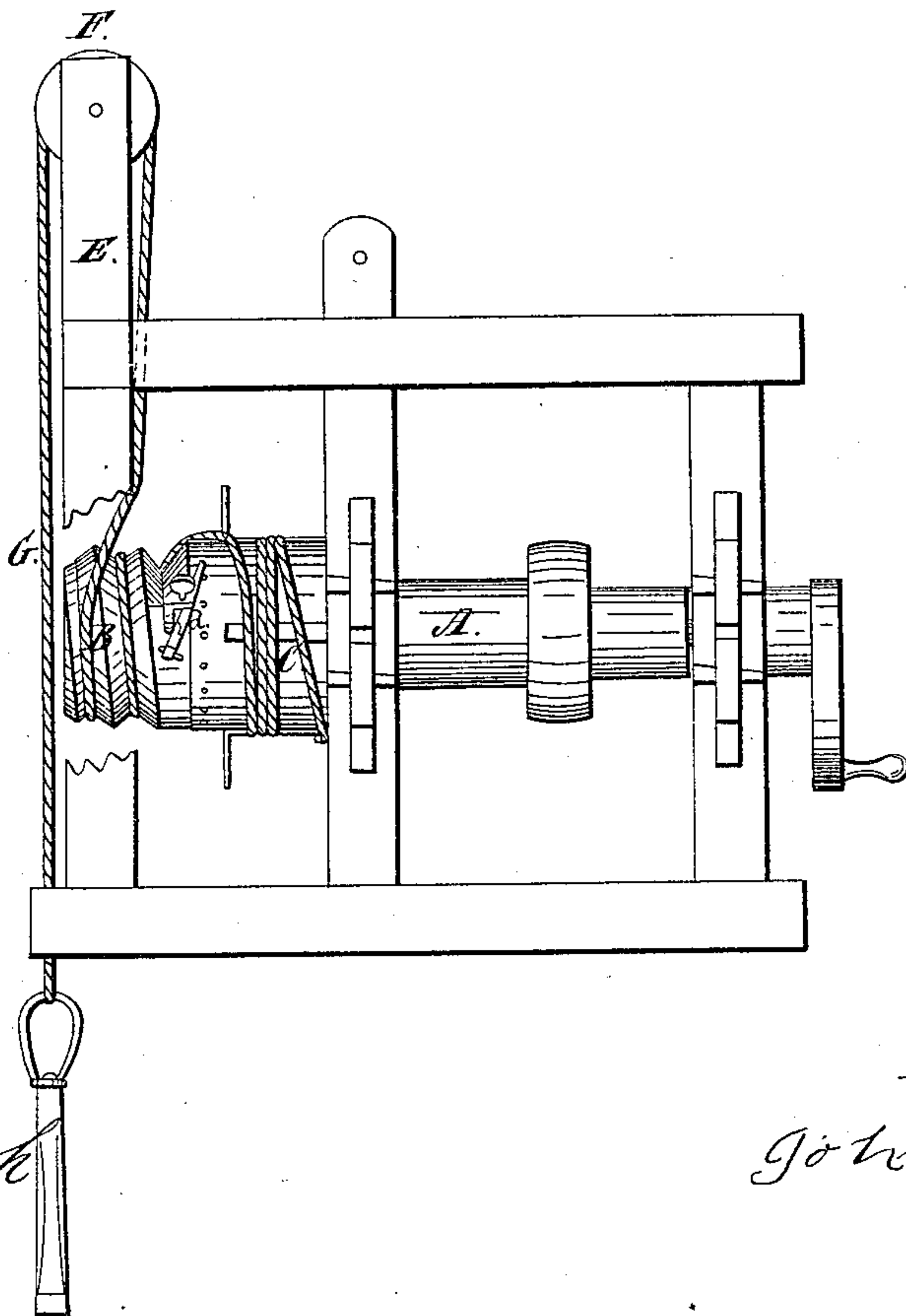
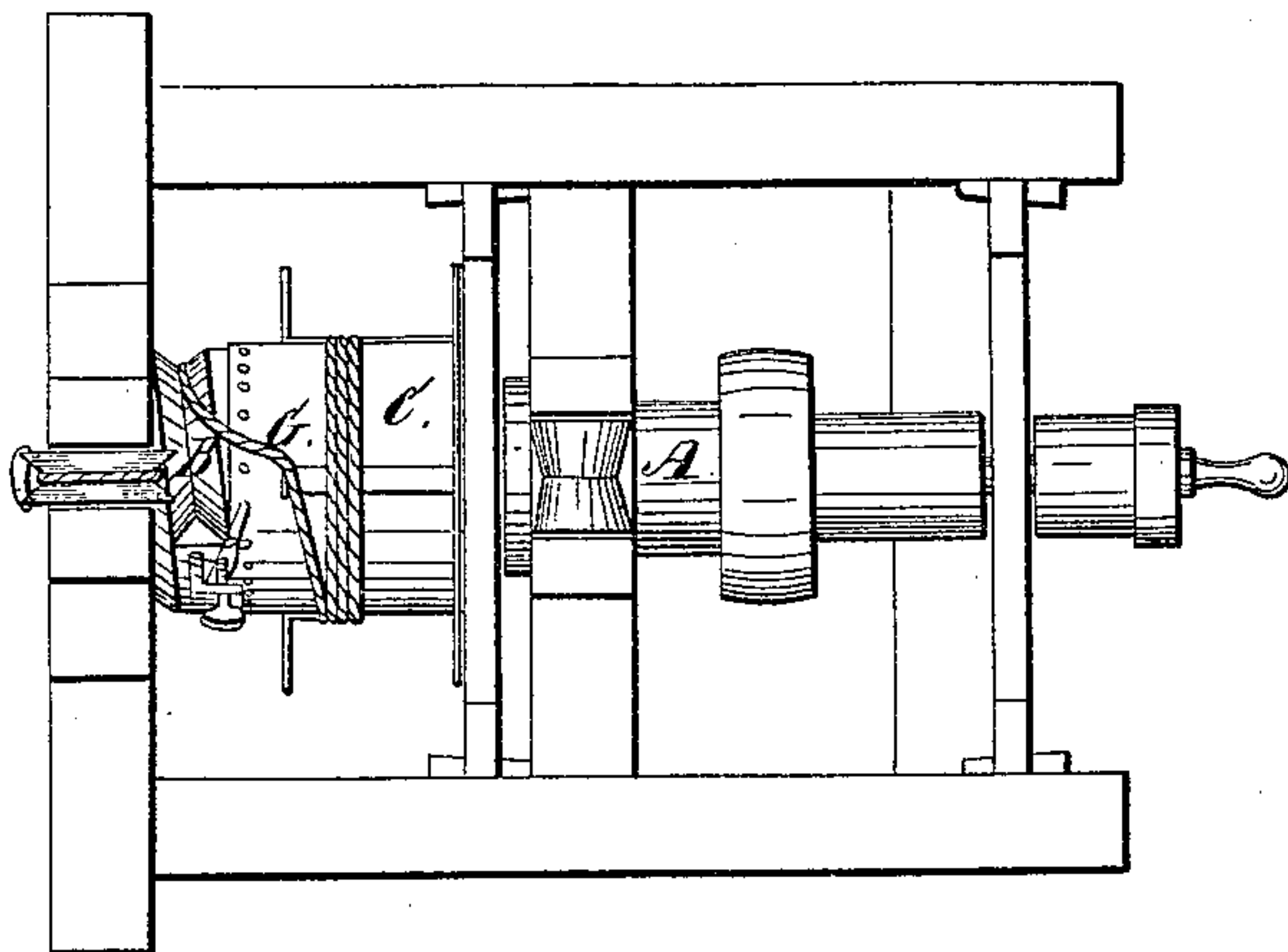


J. Thacker.

Boring Artesian Wells.

N^o 50,643.

Patented Oct. 24, 1865.



Witnesses:

D. W. D. Marsh
Jerome Catley

Inventor:

John Thacker

UNITED STATES PATENT OFFICE.

JOHN THACKER, OF NEW LEXINGTON, OHIO.

IMPROVED BORING APPARATUS FOR ARTESIAN WELLS.

Specification forming part of Letters Patent No. **50,643**, dated October 24, 1865.

To all whom it may concern:

Be it known that I, JOHN THACKER, of New Lexington, in the county of Perry and State of Ohio, have invented a new and useful Machine, being an Improvement in the Mode of boring Artesian wells; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same.

First, a horizontal shaft, A, with screw attached, B, upon which is a slack spool, C, for holding and paying out the rope G; second, a set-screw, *d*, with point on an inclined plane to gage the slack spool.

This horizontal shaft may be put in motion by horse, steam, or any other power.

At the screw end of the horizontal shaft, and forming a part of the frame-work, is the derrick E, upon the top of which is a pulley, F, for the purpose of raising the tools H from

the well and working the sand-pump by means of a rope running from the power end of the shaft.

By attaching the power to the shaft, turning it to the left throws the rope upon which the drill is attached directly from the center of the shaft on a perpendicular. The shaft may be of wood or iron, as well also the screw.

What I claim as my invention, and desire to secure by Letters Patent, is—

The horizontal shaft ending in a screw, by means of which the rope to which the drill is attached falls from the center of the shaft, in combination with a slack spool, gaged by the set-screw, to pay out the rope.

June 5, 1865.

JOHN THACKER.

Witnesses:

D. W. D. MARSH,
R. C. SAFFELL.