

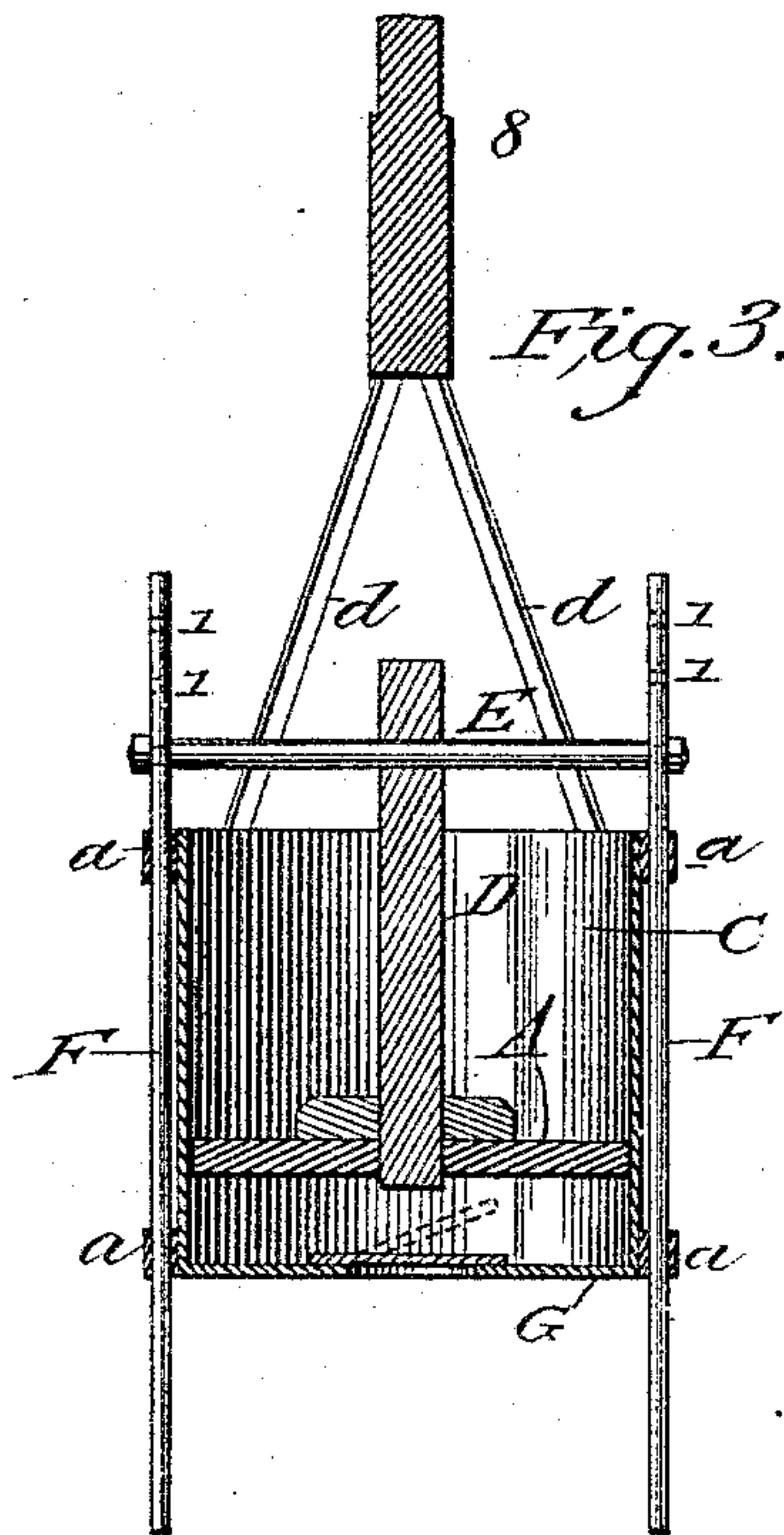
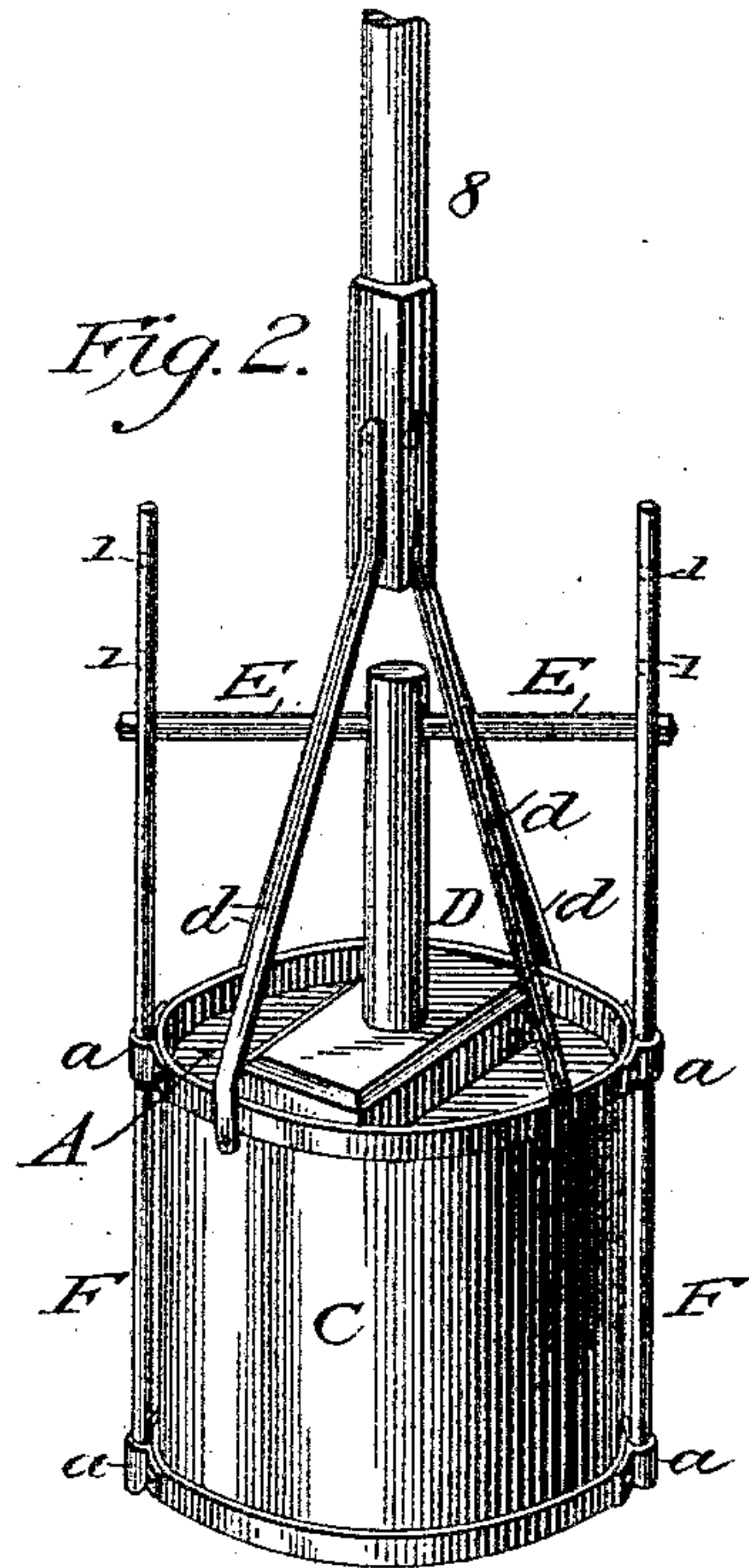
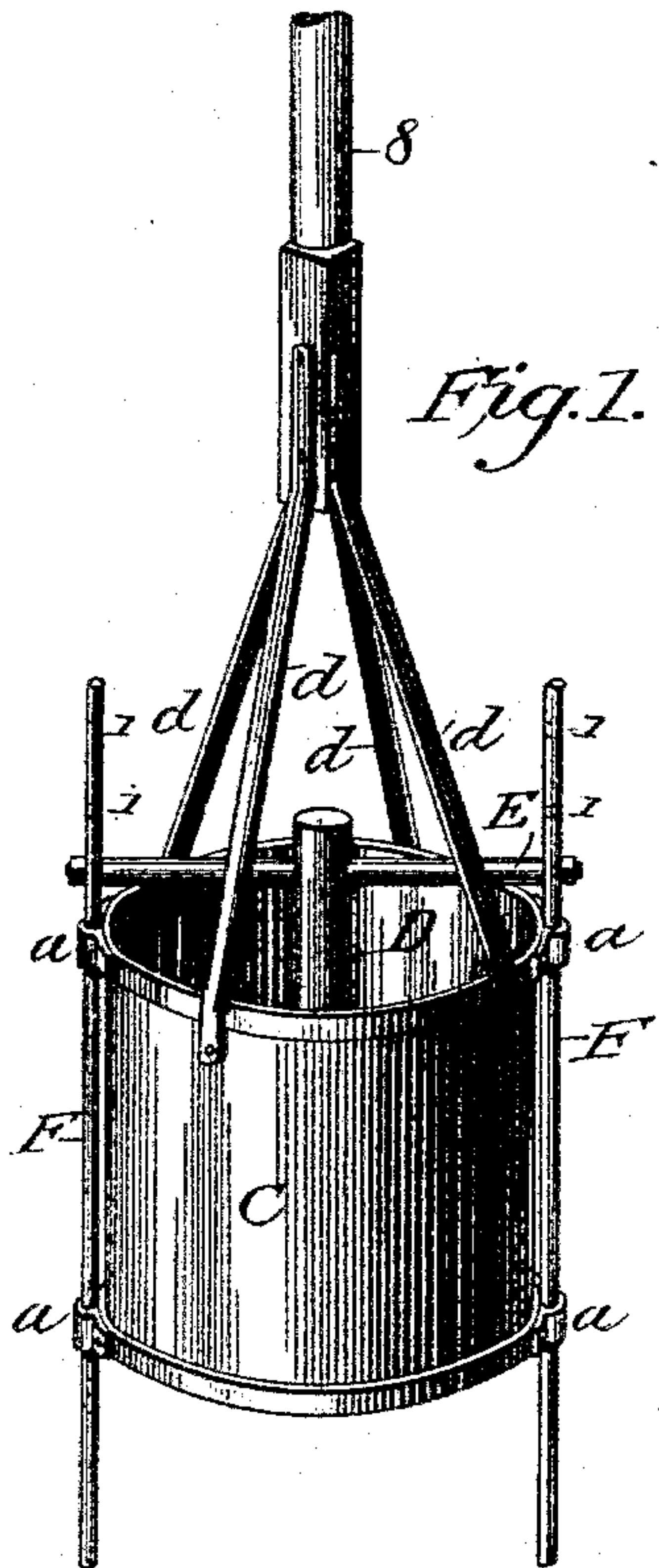
(No Model.)

A. M. TAYLOR.

WELL OR CISTERN CLEANING MACHINE.

No. 412,211.

Patented Oct. 1, 1889.



Witnesses.

Fred. O. Gephart.  
Willm. Harden

Inventor.

Arthur M. Taylor

# UNITED STATES PATENT OFFICE.

ARTHUR M. TAYLOR, OF NILES, MICHIGAN.

## WELL OR CISTERN CLEANING MACHINE.

SPECIFICATION forming part of Letters Patent No. 412,211, dated October 1, 1889.

Application filed April 10, 1889. Serial No. 306,737. (No model.)

*To all whom it may concern:*

Be it known that I, ARTHUR M. TAYLOR, a citizen of the United States, residing at Niles, in the county of Berrien and State of Michigan, have invented a new and useful Well or Cistern Cleaning Machine, of which the following is a specification.

My invention relates to improvements in well or cistern cleaning machines, in which a vertical cylinder or receiving-bucket, with a valve in its bottom containing a piston, is operated by side rods; and the objects of my invention are to provide a ready means of cleaning wells or cisterns without removing the water therefrom or going down into them. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a detail view, in perspective, showing the machine with the piston down. Fig. 2 is a detail view, in perspective, showing the piston up; and Fig. 3 is a vertical section of the entire machine.

Similar letters refer to similar parts throughout the several views.

The piston A works up and down in the receiving-cylinder C, and is connected with the side rods F F by the piston-rod D and the cross-head E. The side rods F F, when the piston is at the bottom of the cylinder C, extend below the bottom thereof, as shown in Fig. 1. The handle 8 is rigidly secured to the top of the cylinder C by the rods d d d d.

The machine is lowered into the well or cistern by the handle 8, Fig. 1. When the side rods F F touch the bottom of the well or cistern, by pressing down upon the handle 8 the side rods F F hold the piston A stationary while the receiving-cylinder C slides down upon the side rods F F, separating the bottom of the cylinder C and the piston A, leaving a vacuum between them. The outside pressure opens the valve B, through which the mud and dirty water in the bottom of the well or cistern rapidly enters the receiving-cylinder C as it lowers. When the piston A reaches the top of the cylinder C and the bottom of the cylinder strikes the bottom of the well or cistern, the valve B closes, retaining the dirty contents within the cylinder, when it may be drawn up and emptied, and the operation repeated.

What I claim as my invention is—

In a cistern-cleaner, the combination, with the receiving-cylinder C, piston A, and valve B, of the guides a a, rods F, sliding therein, and the cross-head and piston-rod connecting said piston to said rods F, substantially as and for the purposes specified.

ARTHUR M. TAYLOR.

Witnesses:

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