

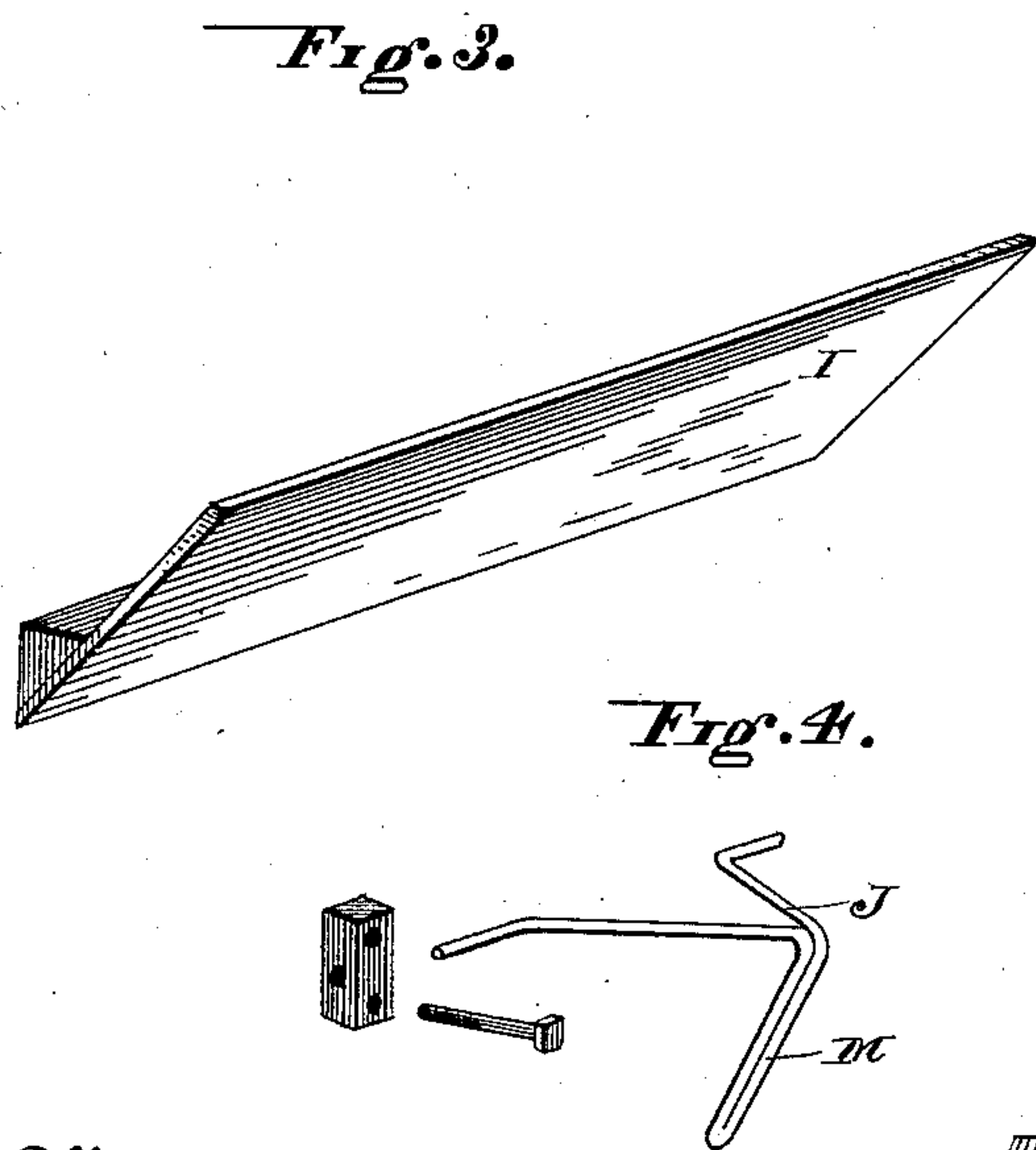
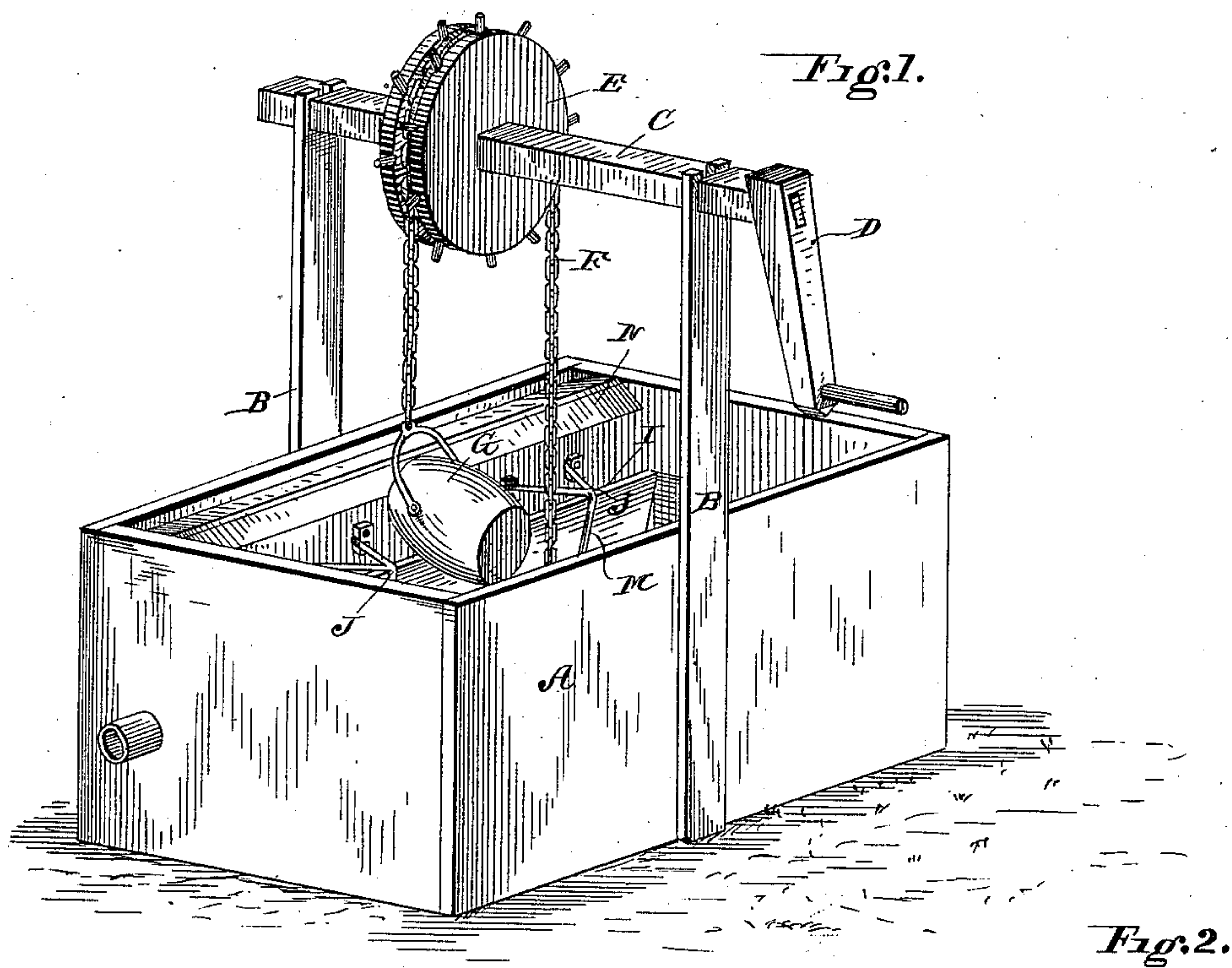
(No Model.)

J. H. BARTLETT.

# APPARATUS FOR DRAWING WATER FROM WELLS.

No. 362,352.

Patented May 3, 1887.



Witnesses  
F. L. Oirand  
Benj. G. Cowf.

The diagram illustrates a mechanical apparatus, possibly a dredge or a pump, with the following components labeled:

- A**: The main body or container, shown in cross-section.
- B**: The vertical frame or support structure.
- C**: A horizontal beam or support at the top.
- D**: A lever or arm extending from the top right.
- E**: A component at the top of the vertical frame, possibly a pulley or guide.
- F**: A chain or cable running vertically through the center.
- G**: A rotating drum or wheel in the center of the container.
- H**: A component at the bottom of the vertical frame, possibly a pulley or guide.
- I**: A component on the left side of the container, possibly a valve or gate.
- J**: A component on the left side of the container, possibly a valve or gate.
- K**: A component on the left side of the container, possibly a valve or gate.
- L**: A component on the left side of the container, possibly a valve or gate.
- M**: A component on the left side of the container, possibly a valve or gate.
- N**: A component on the left side of the container, possibly a valve or gate.
- O**: A component on the left side of the container, possibly a valve or gate.
- P**: A component on the left side of the container, possibly a valve or gate.
- Q**: A component on the left side of the container, possibly a valve or gate.
- R**: A component on the left side of the container, possibly a valve or gate.
- S**: A component on the left side of the container, possibly a valve or gate.
- T**: A component on the left side of the container, possibly a valve or gate.
- U**: A component on the left side of the container, possibly a valve or gate.
- V**: A component on the left side of the container, possibly a valve or gate.
- W**: A component on the left side of the container, possibly a valve or gate.
- X**: A component on the left side of the container, possibly a valve or gate.
- Y**: A component on the left side of the container, possibly a valve or gate.
- Z**: A component on the left side of the container, possibly a valve or gate.

Below the diagram, the text reads:

Inventor  
*Jesse A. Bartlett*  
 By his Attorneys  
*Louis Digger & Co.*



# UNITED STATES PATENT OFFICE.

JESSE H. BARTLETT, OF SCOTT CITY, KANSAS.

## APPARATUS FOR DRAWING WATER FROM WELLS.

SPECIFICATION forming part of Letters Patent No. 362,352, dated May 3, 1887.

Application filed January 15, 1887. Serial No. 224,392. (No model.)

*To all whom it may concern:*

Be it known that I, JESSE H. BARTLETT, a citizen of the United States, and a resident of Scott City, in the county of Scott and State of Kansas, have invented certain new and useful Improvements in Apparatus for Drawing Water from Wells; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved apparatus for drawing water from wells or cisterns. Fig. 2 is a transverse vertical section of the same. Fig. 3 is a perspective detail view of the removable emptying-trough inside of the well-casing, and Fig. 4 is a detail view of one of the keepers or devices for attaching said trough removably to the inside of the well-casing.

Like letters of reference denote corresponding parts in the several figures.

My invention has relation to that class of devices for drawing water from wells or cisterns, or so-called "water-elevators," in which a pair of buckets are employed suspended at opposite ends of a rope or chain passing over a pulley-wheel fixed above the well coping or casing, and so arranged that the full buckets will be emptied automatically into a trough inside of the well-casing; and my improvement consists in the detailed construction and combination of parts of an apparatus of that class, as will be hereinafter more fully set forth.

In the accompanying drawings, A denotes the casing or coping of the well or cistern, and B B two uprights, one on each side of the same, the upper parts of which form bearings for a shaft, C, having a crank, D, for turning it. Upon shaft C is fixed a pulley-wheel, E, over which passes the chain or cable F, having the buckets G and H suspended from opposite ends.

Upon one side of the well-casing, on the inside, is fastened a trough, I, by means of the keepers J J. Each of these keepers consists of a hook-shaped catch having projections at its inner hinge end, which enter perforated blocks, so as to swing freely up and down. The outer hooked ends, M, of these keepers overlap the top of the trough and bear against the outside of the same, thus holding it firmly in its proper position. At the same time the

trough may be readily removed when desired by tilting the keepers up, as indicated in dotted lines, so as to disengage their hooked ends from the trough. Over the trough is placed an inverted trough, N, the outside of which overlaps the lower trough, I. This inverted upper trough is fastened removably to the side of the well-casing by any suitable means.

From the foregoing description, taken in connection with the drawings, the operation of this apparatus will be readily understood. In lowering one of the buckets empty down into the well or cistern, the other bucket will be drawn up full, and as it reaches with its top edge the overlapping edge of the inverted trough end it will be tilted or upset, so as to empty its contents into the removable discharge-trough I, which is slightly inclined, and connects at its inclined end with a spout or pipe, through which the water is conveyed to any suitable receptacle. In cleansing the well, or when for any other purpose it is desired to remove the obstructions on the inside, this may be done in a moment of time by lifting out the inverted trough N, raising the hook-shaped keepers, and detaching and removing trough I. In the same manner the trough may readily be cleaned when desired, or a new one substituted for an old and worn trough whenever desired. By reason of the upper trough projecting over the lower one, leaves, dust, and other impurities are kept from falling into the lower trough, and at the same time the entire top of the well is not covered, as such covering would prevent that free circulation of the air within the well which is necessary for pure water.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

The combination, with a well-casing, of an upright upon each side having a bearing at its top, a shaft having a pulley-wheel, a chain having a bucket secured to each end, a trough upon one side of the casing, and two keepers, each consisting of a hook-shaped catch having projections at its inner hinge end, and perforated blocks secured to the side of the casing above said trough.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

Witnesses: JESSE H. BARTLETT,  
WILLIAM R. HADLEY,  
L. S. MYLES.