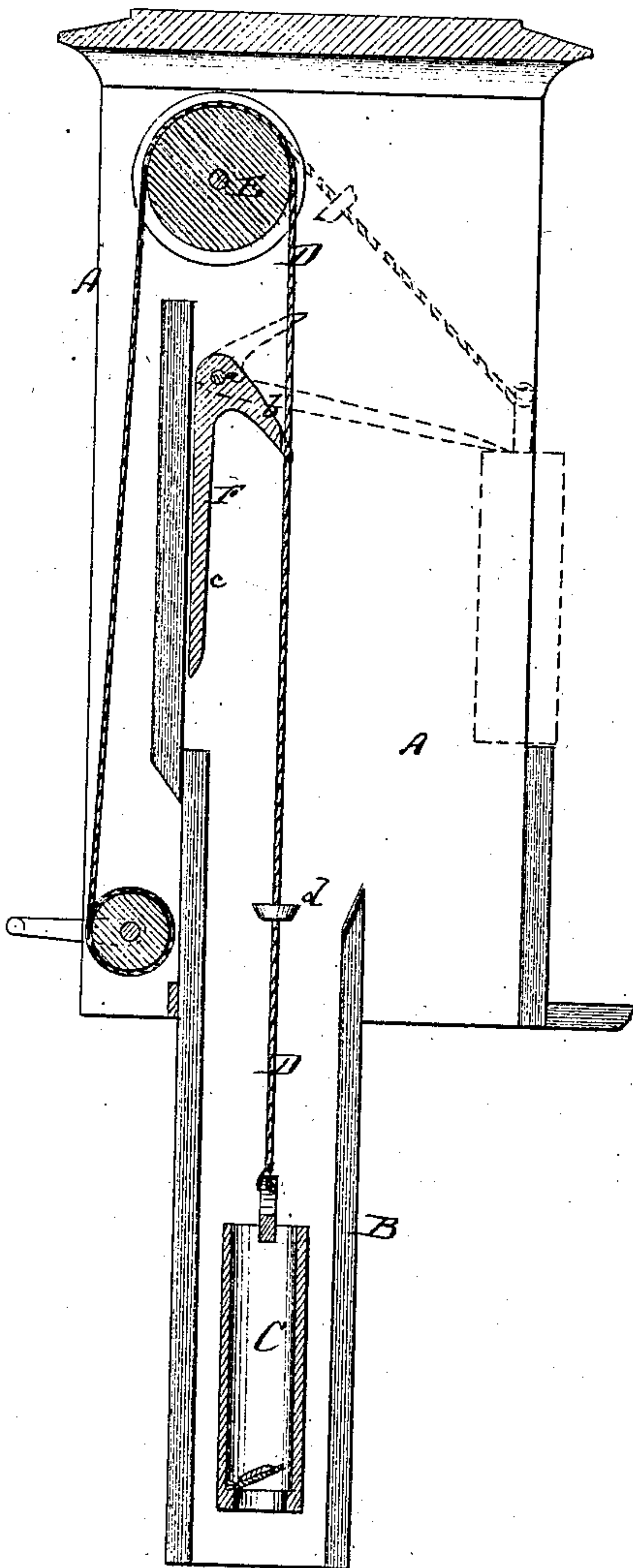
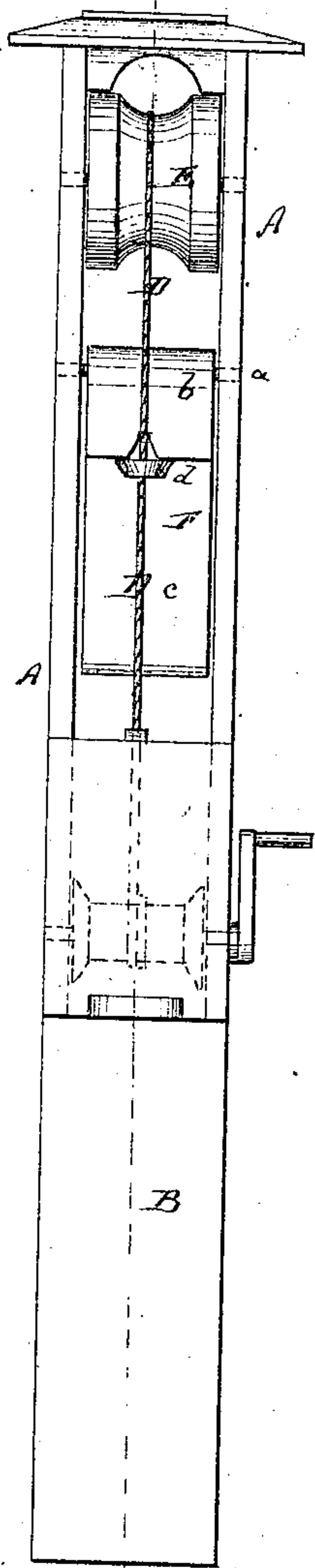


M. S. M^cSwain. Water Elevator.

Fig. 1. PATENTED JUL 5 1870 Fig. 2.
104976



Witnesses:

A. Benneken
S. J. Mabel

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PER

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Attorneys.

United States Patent Office.

MOSES S. McSWAIN, OF POLE GROVE, WISCONSIN.

Letters Patent No. 104,976, dated July 5, 1870.

IMPROVEMENT IN WATER-ELEVATOR

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, MOSES S. McSWAIN, of Pole Grove, in the county of Jackson and State of Wisconsin, have invented a new and Improved Water-Elevator; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 represents an end view of a well-curb provided with my improved elevator.

Figure 2 is a vertical longitudinal section of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new apparatus for elevating buckets in wells, and for carrying them to the open sides of the curbs.

The invention consists chiefly in the application to the curb of an L-shaped lever, which will serve to push the elevated bucket horizontally toward the mouth of the curb.

A, in the drawing, represents a well-curb, of suitable construction and shape. It is arranged above a prismatic or cylindrical pipe or box, B.

C is the bucket suspended by a rope or chain, D,

from a windlass, E, which can be rotated by suitable mechanism.

Within the curb is pivoted, by a pin, *a*, an L-shaped lever, F, whose arms, *b* and *c*, are set at an acute angle, as shown in fig. 2. The short arm *b* is forked, and embraces the descending or ascending rope. When the bucket has nearly been elevated, a button, *d*, on the rope will strike the arm *b*, and will thereby swing the lever so as to carry the arm *c* out horizontally. The arm *c* will then push the bucket C out horizontally toward the opening of the well, as indicated by dotted lines in fig. 2. The arm *b* serves, therefore, to swing the lever F, so as to thereby enable the arm *c* to move the bucket outward. When liberated, the arm *c* hangs perpendicular, as shown.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

The two-armed lever F, arranged within a well-curb, substantially as and for the purpose herein shown and described.

MOSES S. McSWAIN.

Witnesses:

I. B. ALLEN,

E. P. ALLEN.