

T. SMITH.
DREDGING-BUCKET.

No. 174,315.

Patented Feb. 29, 1876.

Fig. 1

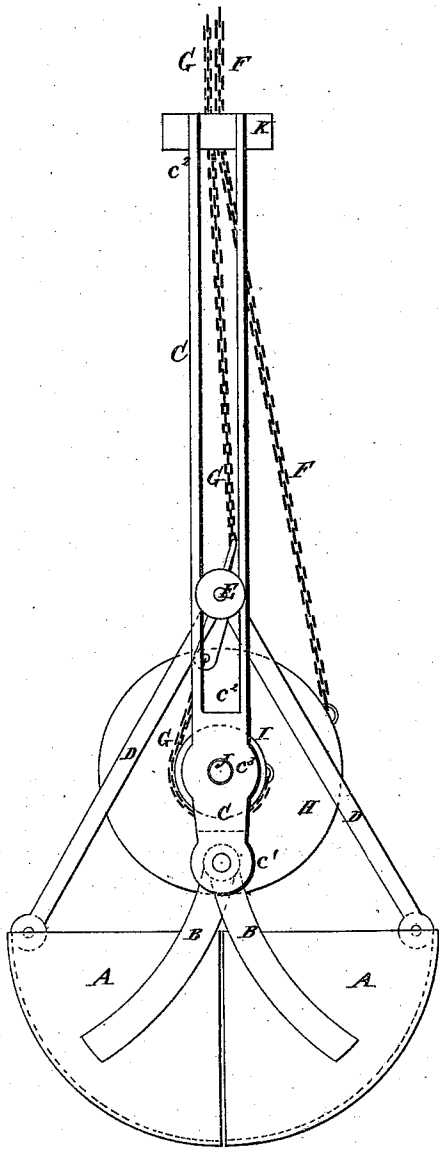
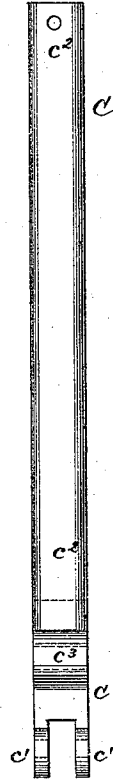


Fig. 2



WITNESSES:

A. W. Almqvist
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INVENTOR:

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BY

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UNITED STATES PATENT OFFICE.

THEODOR SMITH, OF JERSEY CITY, NEW JERSEY.

IMPROVEMENT IN DREDGING-BUCKETS.

Specification forming part of Letters Patent No. **174,315**, dated February 29, 1876; application filed February 14, 1876.

To all whom it may concern:

Be it known that I, THEODOR SMITH, of Jersey City, Hudson county, New Jersey, have invented a new and useful Improvement in Dredging-Buckets, of which the following is a specification:

Figure 1 is a side view of a mud-bucket to which my improvement has been applied, and Fig. 2 is a detail view of one of the arms.

Similar letters of reference indicate corresponding parts.

The object of this invention is to improve the construction of dredging-buckets, so as to make them stronger, better, less liable to break or get out of order, and simpler in construction.

The invention consists in the arms formed of the jaws, the bearings, and the slotted upper parts, made in one solid piece, as herein-after fully described.

A are the parts of the bucket, to the inner corners of which are rigidly attached the bars B, the upper ends of which are inserted between and pivoted to the jaws c^1 , formed upon the lower ends of the arms C. To the outer corners of the parts A of the bucket are pivoted the lower ends of the bars D, the upper

ends of which are pivoted to a shaft, E, the ends of which pass through and work in the longitudinal slots in the upper part c^2 of the arms C. F G are the chains by which the bucket is operated. The lower end of the chain F is attached to the large pulley H. The chain G is connected with the shaft E, and its lower end is attached to the small pulley I. The pulleys H I are attached to the shaft J, the journals of which revolve in bearings c^3 in the solid lower parts of the arms C. The upper ends of the arms C are connected by a cross-bar, K.

The jaws c^1 , the bearings c^3 , and the slotted upper parts c^2 of the arms C are all formed in one solid piece.

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

The arms C, consisting of jaws c^1 , the bearings c^3 , and the slotted upper parts c^2 , made in one solid piece, substantially as herein shown and described.

THEODOR SMITH.

Witnesses:

JAMES T. GRAHAM,
T. B. MOSHER.