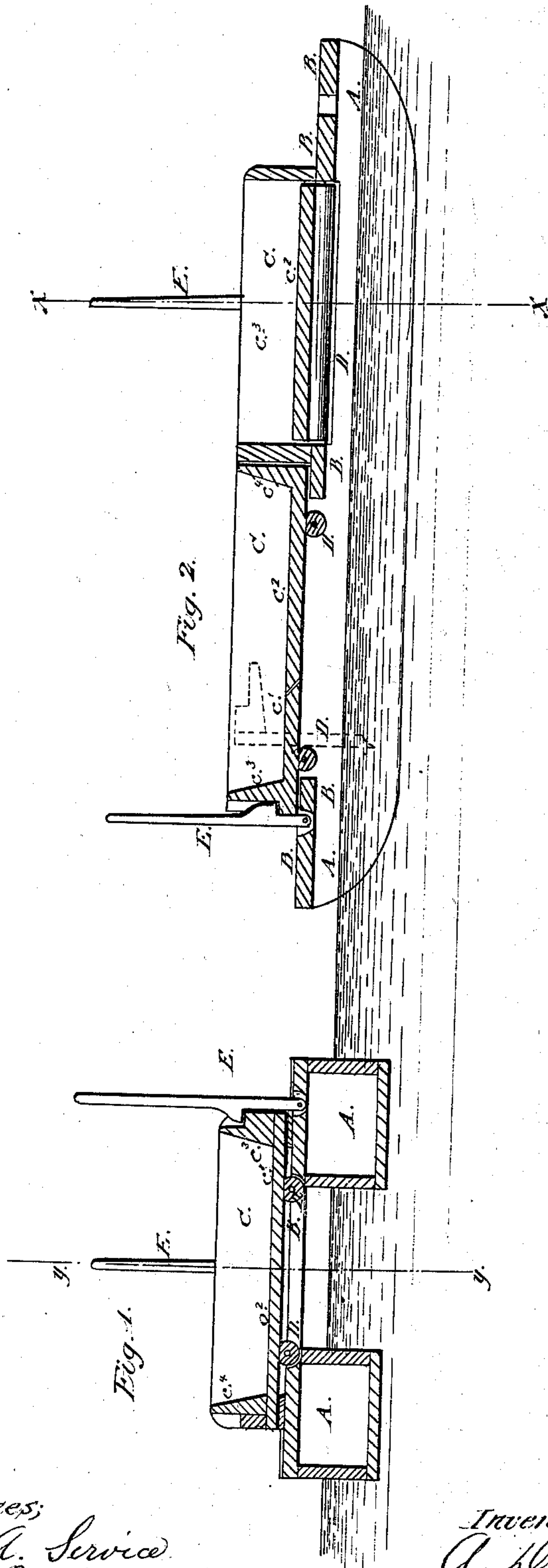


*A. I. Morley,*  
*Saw.*

*No. 62045.*

*Patented Feb. 12. 1867.*



*Witnesses;*  
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# United States Patent Office.

ALMON D. MANLEY, OF WASHINGTON, MICHIGAN.

*Letters Patent No. 62,045, dated February 12, 1867.*

## IMPROVED MUD BOAT.

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, ALMON D. MANLEY, of Washington, Macomb county, State of Michigan, have invented a new and useful improvement in Mud Boats; 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 a part of this specification, in which—

Figure 1 is a vertical cross-section of my improved mud boat, taken through the line *x x*, fig. 2.

Figure 2 is a vertical longitudinal section of the same, taken through the line *y y*, fig. 1.

Similar letters of reference indicate like parts.

My invention has for its object to furnish an improved mud boat, so constructed and arranged that the mud may be conveniently dumped through the bottom of the boat when transported to the desired place; and it consists, first, in the combination of one or more mud vats with two boats, placed parallel with each other, and connected with timbers; and second, in the combination of sectional drop bottoms and a lever-catch with the mud vats, where said drop-bottoms are constructed and arranged substantially as hereinafter more fully described.

A are the supporting boats or buoys, which are made with tight, smooth decks, and may have flat or curved bottoms, as may be desired. These boats A are placed at a suitable distance apart, and parallel to each other, and are connected together by planks or timbers B, of sufficient strength to support the mud vats and their contents. C are the mud vats, one or more of which are placed over the opening between the boats or buoys A. These vats may be placed across said opening or space, or longitudinal therewith, as may be desired. But I prefer to place them across said vats, as increasing the carrying capacity of the said vats. The sections *c*<sup>1</sup> and *c*<sup>2</sup> of the bottoms of the vats are securely attached to the rollers D, which support them, and the ends of which are pivoted to the connecting timbers B, or to the boats A, according as the vats C are placed across or longitudinally with the opening between the said boats A. The edges of the sections *c*<sup>1</sup> and *c*<sup>2</sup> that come in contact with each other are inclined or bevelled, as shown in figs. 1 and 2, so that the one section *c*<sup>1</sup> may support the other, as shown. The ends *c*<sup>3</sup> and *c*<sup>4</sup> of the vats C are securely attached to the sections *c*<sup>1</sup> and *c*<sup>2</sup> of their bottoms, as shown; and said ends have shoulders formed upon their outer sides, upon which the lever-catch E takes hold and holds the said bottoms closed. The sections or parts *c*<sup>1</sup> and *c*<sup>2</sup> of the bottoms of the vats C may be made of different lengths. And one or both parts should be so hung upon the rollers D that as soon as the catch-lever E is drawn back the weight of the load will overbalance them, discharging the load between the boats or buoys A. The lower ends of the levers E are pivoted to the timbers of the boats A, or to the connecting timbers B, according as the vats C are placed longitudinally with or across the space or opening between the said boats A. Upon the sides of the levers E are formed shoulders, which take hold of the shoulders formed upon the end boards *c*<sup>3</sup> of the vats C, and hold the said bottoms *c*<sup>1</sup> and *c*<sup>2</sup> securely in place.

I claim as new, and desire to secure by Letters Patent:

1. The combination of one or more mud vats C with two boats or buoys A, placed parallel with each other, and connected with timbers B, substantially as herein described, and for the purpose set forth.

2. The combination of the sectional drop-bottoms *c*<sup>1</sup> *c*<sup>2</sup> and the lever-catch E with the mud vats C, when the said drop-bottoms are constructed and arranged substantially as herein described and for the purpose set forth.

The above specification of my invention signed by me this 16th day of July, 1866.

ALMON D. MANLEY.

Witnesses:

C. F. MALLARY,  
C. R. GREENE.