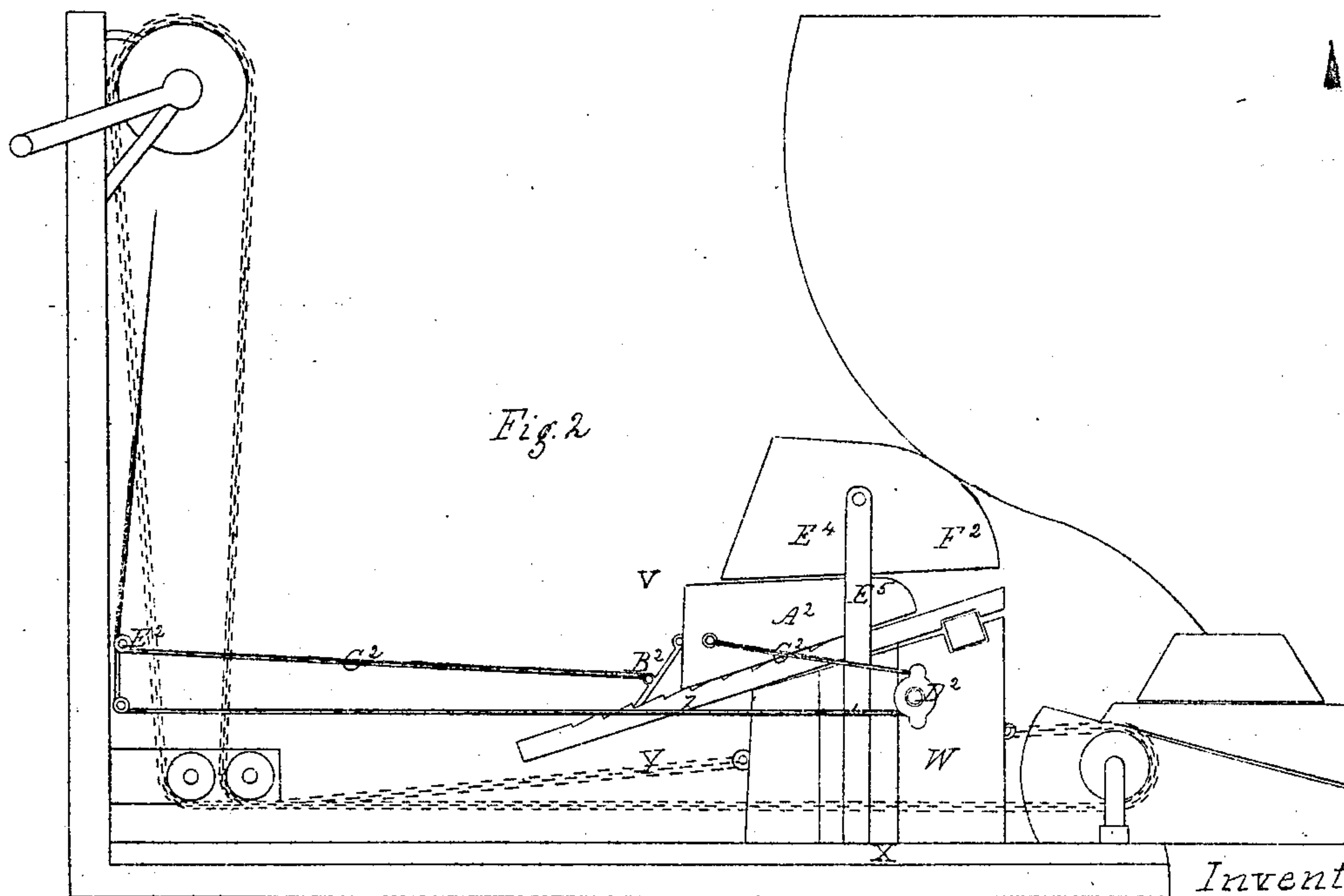
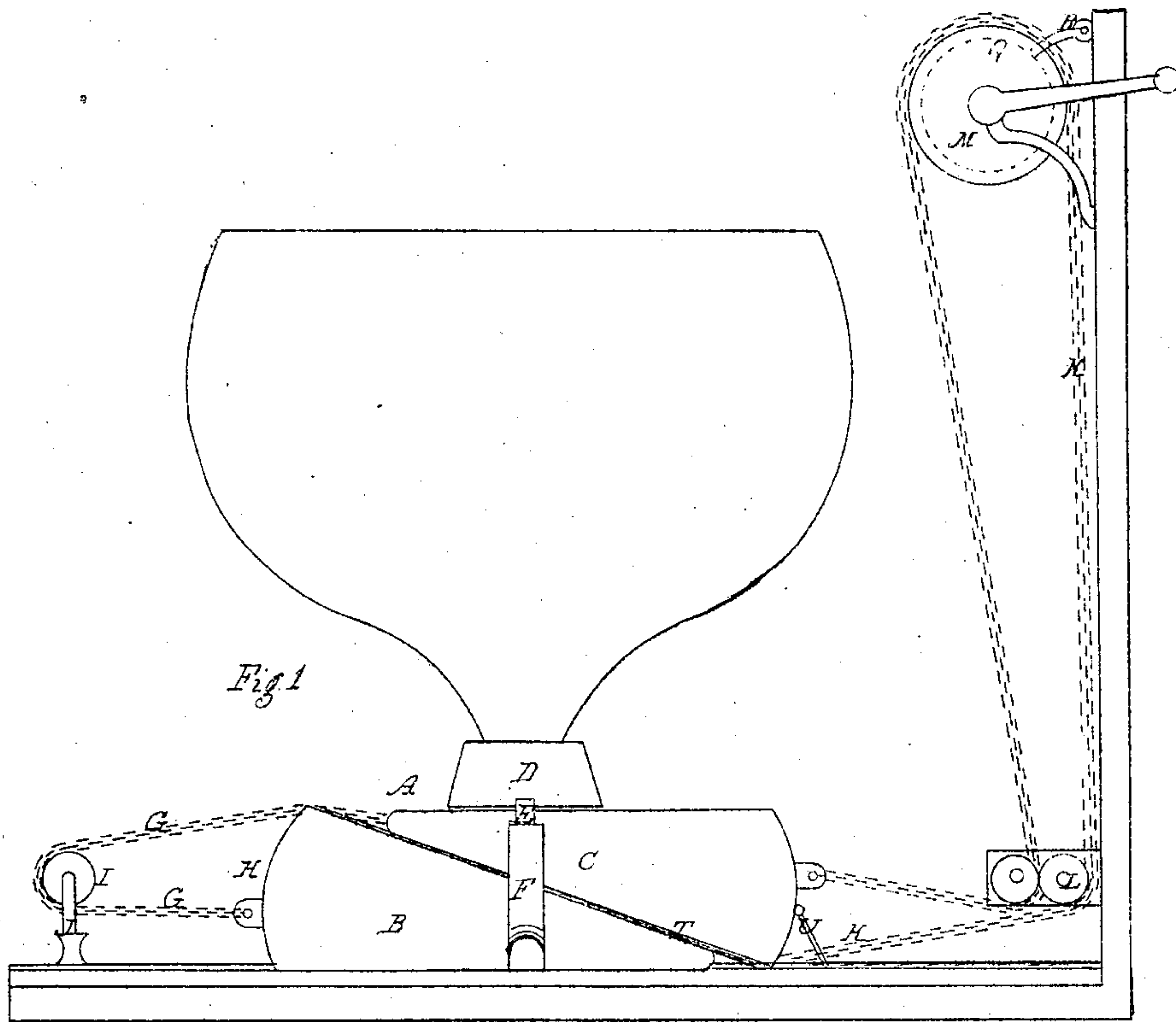


J. T. Parlour.
Keel & Bilge-Block.

N^o 73376

Patented Jan. 14, 1868.



Witnesses
Alex. F. Roberts
J. A. Service

Inventor.
J. T. Parlour
per [Signature] Attorneys.

United States Patent Office.

JOSEPH T. PARLOUR, OF BROOKLYN, NEW YORK, ASSIGNOR TO HIMSELF
AND WILLIAM BEARD.

Letters Patent No. 73,376, dated January 14, 1868.

IMPROVED KEEL AND BILGE-BLOCK.

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, JOSEPH T. PARLOUR, of Brooklyn, in the county of Kings, and State of New York, have invented certain new and useful "Improvements in Blocks or Supports for the Keel and Bilge to Vessels in Dock;" 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 drawings, forming part of this specification, in which—

Figure 1 is a side elevation or view of a block, constructed according to the present invention, adapted for supporting the keel.

Figure 2 is a side elevation or view of another block, showing it as adapted for supporting a vessel upon its bilge.

The present invention more particularly relates to a block for supporting a vessel by its keel or bilge when laid up in a dock for repairs, which block is made in parts or sections for adjustment, either in a higher or lower plane, as may be desired; and this invention consists, first, in a novel connection between the several parts to the block, and with the windlass for operating the same, whereby the parts can be simultaneously moved, and from one operating-point, in the proper directions; second, in an attachment to the parts of the block of a supporting-pawl and rack in such a manner as to fasten or secure the block in any position to which it may be adjusted or brought.

A, in the drawings, represents a block adapted for supporting a vessel through its keel. This block A is made in three sections, in parts B, C, and D, with the two lower parts, B and C, of a wedge shape, but with the inclination only in one face, by which faces they are arranged to move, the one upon the other, being properly constructed with raised ribs for guiding and steadying them in their movement. The other, D, to the block, is placed upon the upper face of the upper section of the two sections B and C, and as such block is moved in and out under the same, is raised or lowered in a vertical plane, moving by the downward-projecting arms E to its sides, in fixed standards F of the bottom of the dock, which standards are suitably grooved to receive them, and to guide said part D up and down in one and the same vertical plane, whatever may be the relative position of the under parts, B and C. G, a chain, fastened to the parts B and C of the block, at their end H, from which it extends around a pulley, I, in block or standard J, secured in the bottom of dock. K, a chain, secured at one end to the end of the upper sliding part, C, to the block A, from which it passes around a pulley, L, and from thence up around a windlass-wheel, M, that is supposed to be located at the top of the dock, and from thence down along the side of the dock, to and around a pulley, N, hung thereon, to the end of the lower sliding part, B, to the block, whereon, by its end P, it is hung. Q, a ratchet-wheel, on one face of the windlass-wheel M, and R a pawl hung in a position to engage with such ratchet, and thus to hold the windlass-wheel stationary. By the turning of the windlass-wheel to the right or left, the sliding parts to the block will be moved either in a direction out or in, as it were, raising or lowering part of the block resting therein, as the case may be, the two sliding parts being moved in conjunction with each other by and through the chains connecting the same, as described. T, a ratchet-bar, fixed to the upper side of lower section or part B of the block, and U a pawl hung to the part above, that, by being engaged therewith, secures the two parts in any position to which they may be brought by the operation of the chain-connections. V, a block, adapted for supporting a vessel about the bilge, or, in other words, to the side of the keel. This block V is formed of a part, W, that is arranged to slide forward and backward upon a guide-piece, X, fixed to the bottom of the dock, and for so moving, it is provided with a chain, Y, that at one end is attached to one end of the part W to the block V, and at the other is fixed to the opposite end of the said part, passing between these points, over pulleys and a windlass-wheel, in a similar manner hereinabove described for the operating-chain to the keel-block. The upper edge or face to the part W is inclined from one end to the other, and to the lower end of such inclined face a bed-piece or strip, Z, is hinged, that extends over the face of the part, and projects therefrom in the same general inclination at the end where hinged. This bed-piece or strip Z is provided with ratchet-teeth, as shown, and on it is arranged, to slide or move, a wedge-shaped block, A², that, by means of a pawl, B², hung to it, is stopped or held in its position by engaging such pawl with the proper tooth of the ratchet bed-piece. C², a line, hung

to one end of a slide-block, A², from which, passing around a pulley-wheel, D², in part W, to block, from thence passes through a pulley, E², secured in the side of the dock, up to the top of the dock. By this line the block A² is slidden forward and backward upon the bed-piece or strip Z. E⁴, the block which is to come in direct contact with and against the bilge part of the vessel. This block E⁴ is placed upon the top of the wedge-block A², and by its side arms E⁵ it is guided up and down in a vertical plane, by and through the guides, to the lower part W. This block E⁴, at its end F², is made of suitable form to fit against the side or bilge of the vessel, wherein, by properly operating the chains and line, it can be brought to bear, by being moved toward the same, either horizontally or vertically, or both.

By the construction of the blocks above described, and the chain and line connections for operating their several parts, it is plainly manifest that the blocks can be adjusted as desired from the top of the dock, thus obviating all necessity of pumping out the dock.

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

1. The combination, with the blocks B C D and side pieces E F, of the chains G K, pulleys M I L, ratchet-wheel Q, and pawl R, all constructed, arranged, and operating substantially as described.

2. The side strips to the supporting or cap-piece of a bilge or keel-block, substantially as and for the purpose specified.

The above specification of my invention signed by me, this day of October, 1867.

JOSEPH T. PARLOUR.

Witnesses:

ALBERT W. BROWN,
FREDERIC A. SAYERS.