

J. Hall.

Device for Scuttling Vessels.

N^o 83,490.

Patented Oct. 27, 1868.

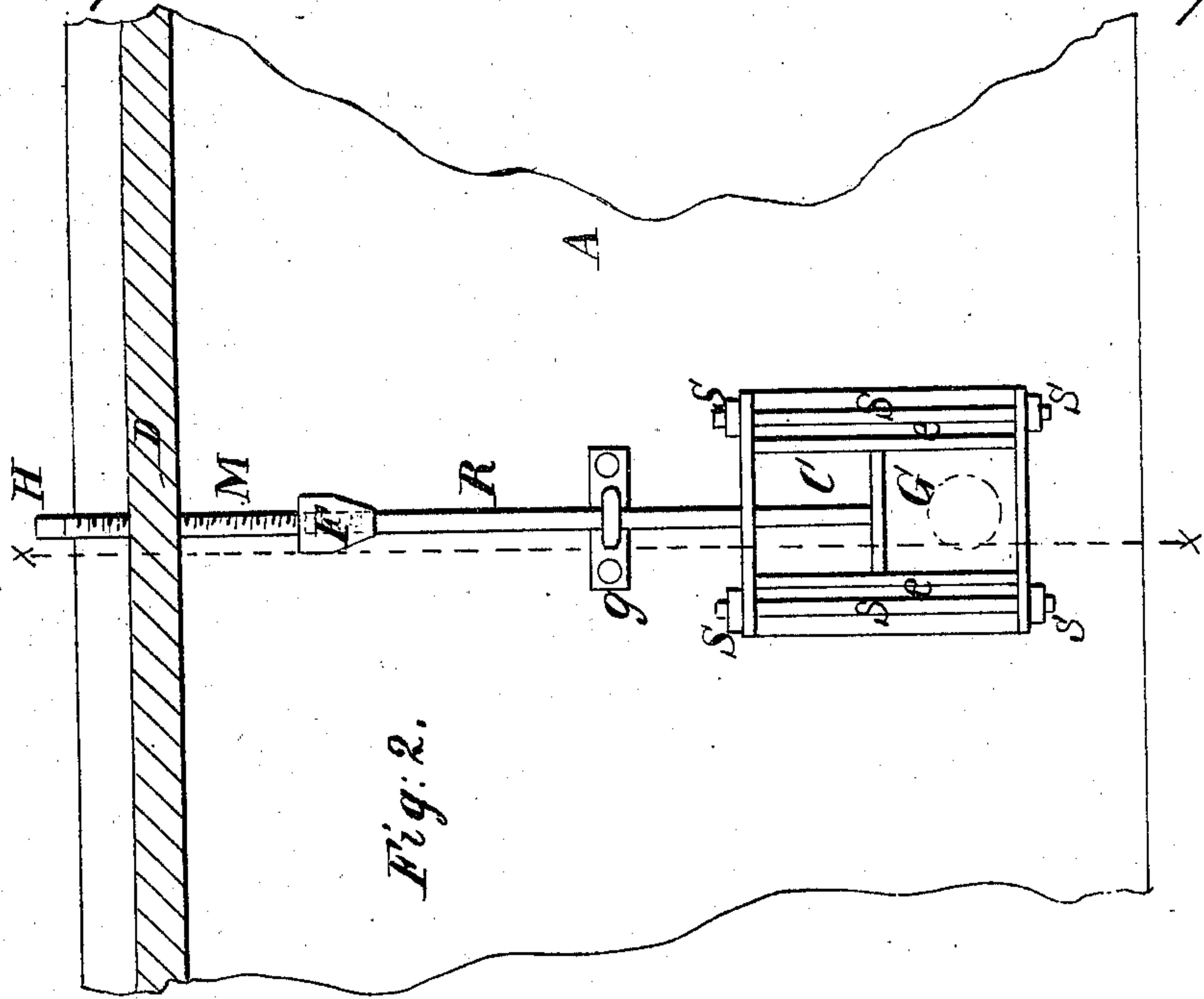


Fig: 2.

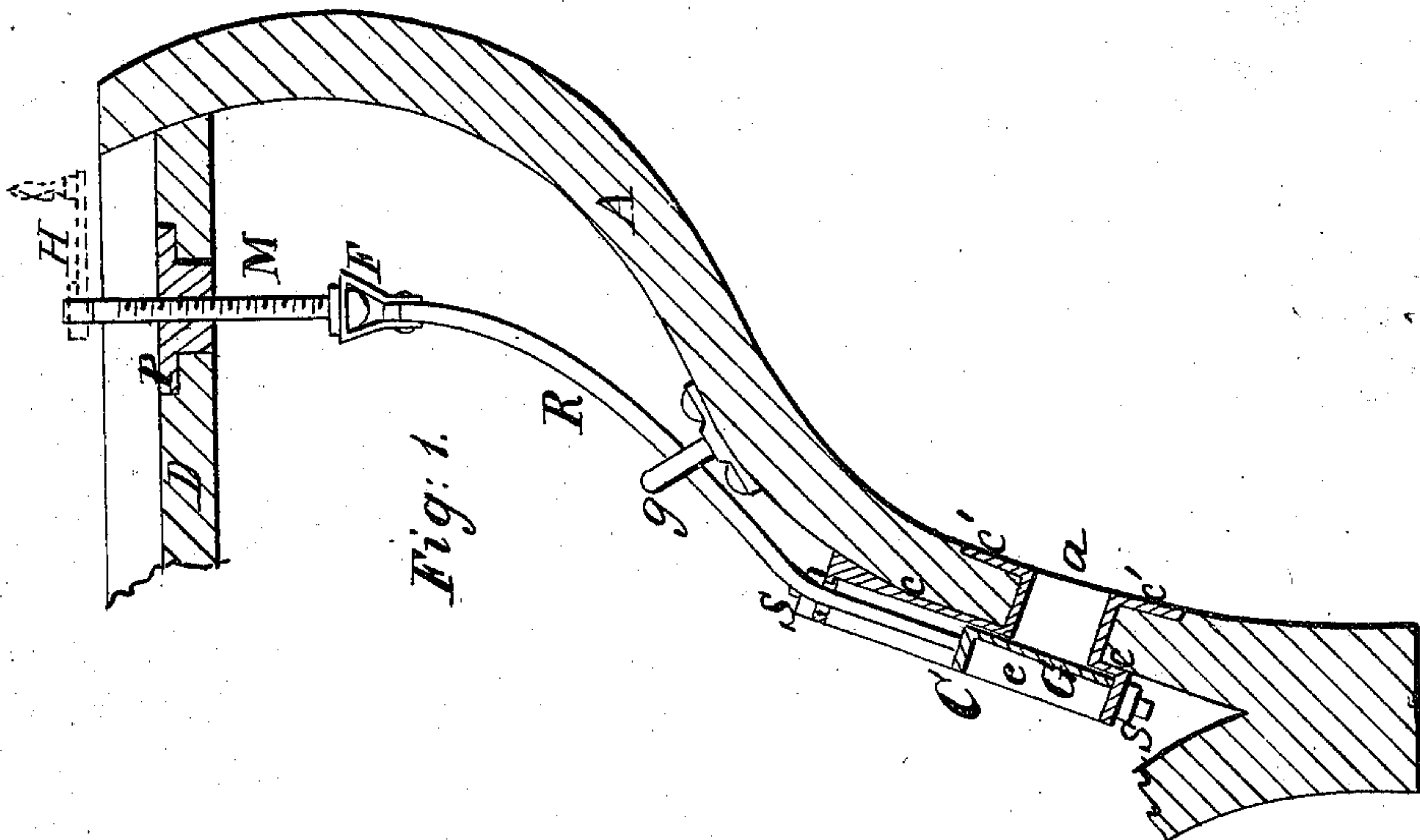


Fig: 1.

Witnesses:

*b. A. Pettis
A. M. Tanner*

Inventor:

*J. Hall
By Messrs
Attorneys.*

United States Patent Office.

JOHN HALL, OF MARSHFIELD, MASSACHUSETTS.

Letters Patent No. 83,490, dated October 27, 1868.

IMPROVEMENT IN DEVICE FOR SCUTTLING VESSELS.

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, JOHN HALL, of Marshfield, in the county of Plymouth, and State of Massachusetts, have invented a new and improved Gate for Scuttling Ships; and I do hereby declare the following to be a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a vertical section, through the line *xx* of fig. 2.

Figure 2 is a side elevation.

The object of this invention is to construct and attach to vessels a gate, which can readily be opened, for the purpose of scuttling them, and which can afterward be as readily closed, when it is desired to pump out and raise the vessel.

In the drawings, A represents a portion of the hull of the vessel, having an opening, *a*, through which the water is to be admitted, in scuttling the vessel, and D is the deck.

A short tube or pipe of metal, C, cast or wrought, is made, and inserted into the opening *a*, being provided with flanges *c c'*, which fit tightly against the wall, around the opening *a*, on both the inside and outside of the vessel, being provided with a central opening, to admit the water. The inner flange *c* is expanded so as to form a bed, to support the gate and its guides and stays, and allow the gate to slide up and down, so as to cover or uncover the mouth of the opening *a*.

The bed, thus formed, is provided with raised flanges *ee* along its sides, which have longitudinal guide-grooves

along their inner edge, where they join the bed-plate *c*, in which grooves the gate G slides.

Stays *s s* may be employed to strengthen the several parts, in the manner shown in the drawings.

A rod, R, bent to conform to the wall of the vessel, extends from the upper edge of the gate G, through a guide, *g*, up toward the deck D, just beneath which it is attached to a vertical screw-rod, by a swivel-joint, F.

The last-mentioned rod, M, extends up through the deck, and terminates in a crank or handle, H.

A plate, P, is attached to the deck, provided with a female screw, through which the male-screw rod M extends.

By turning the handle H in one direction or the other, the rod M is screwed up or down, carrying with it the gate G, and opening or closing the aperture *a*.

The whole device is simple and cheap, and can be operated at any moment from the deck.

Having thus described my invention,

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

The device above described, consisting essentially of the metallic piece C, having the flanges *c c'*, the former expanded sufficiently to form a bed, for the gate to slide upon, and having the guide-flanges *ee*, the gate G, the rod R, swivel-joint F, and screw-rod M, all combined, in the manner and for the purpose set forth.

To the above specification of my invention, I have signed my hand, this 20th day of July, 1868.

JOHN HALL.

Witnesses:

CHAS. A. PETTIT,
SOLON C. KEMON.