

(No Model.)

R. B. CONDON.
NAVIGABLE VESSEL.

No. 314,435.

Patented Mar. 24, 1885.

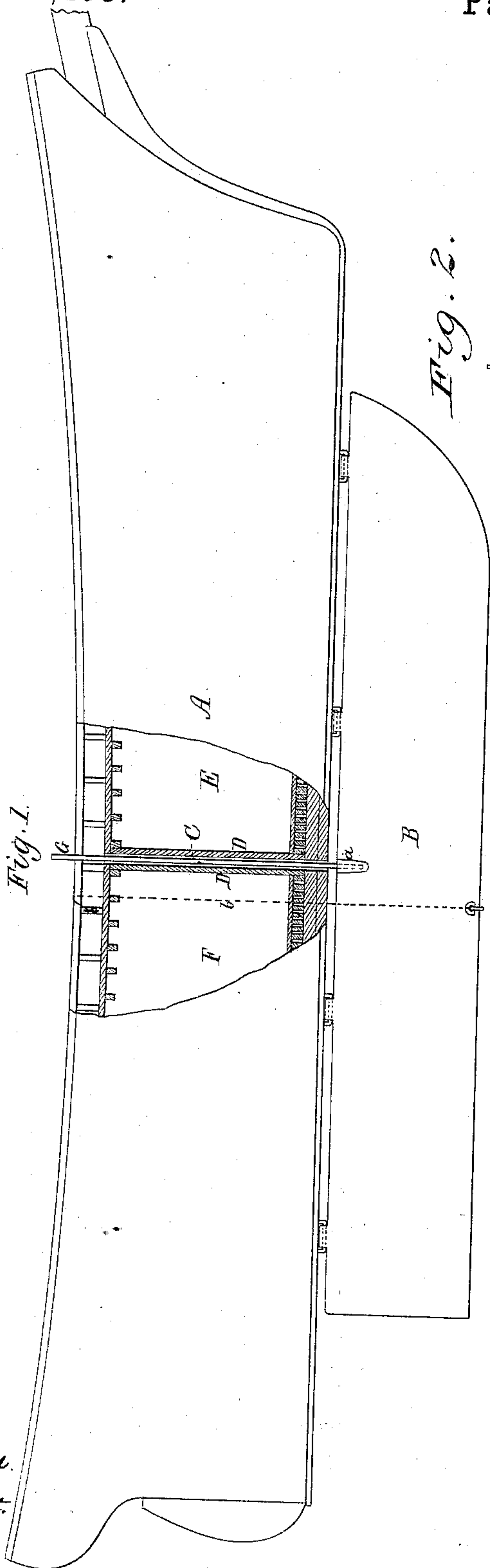
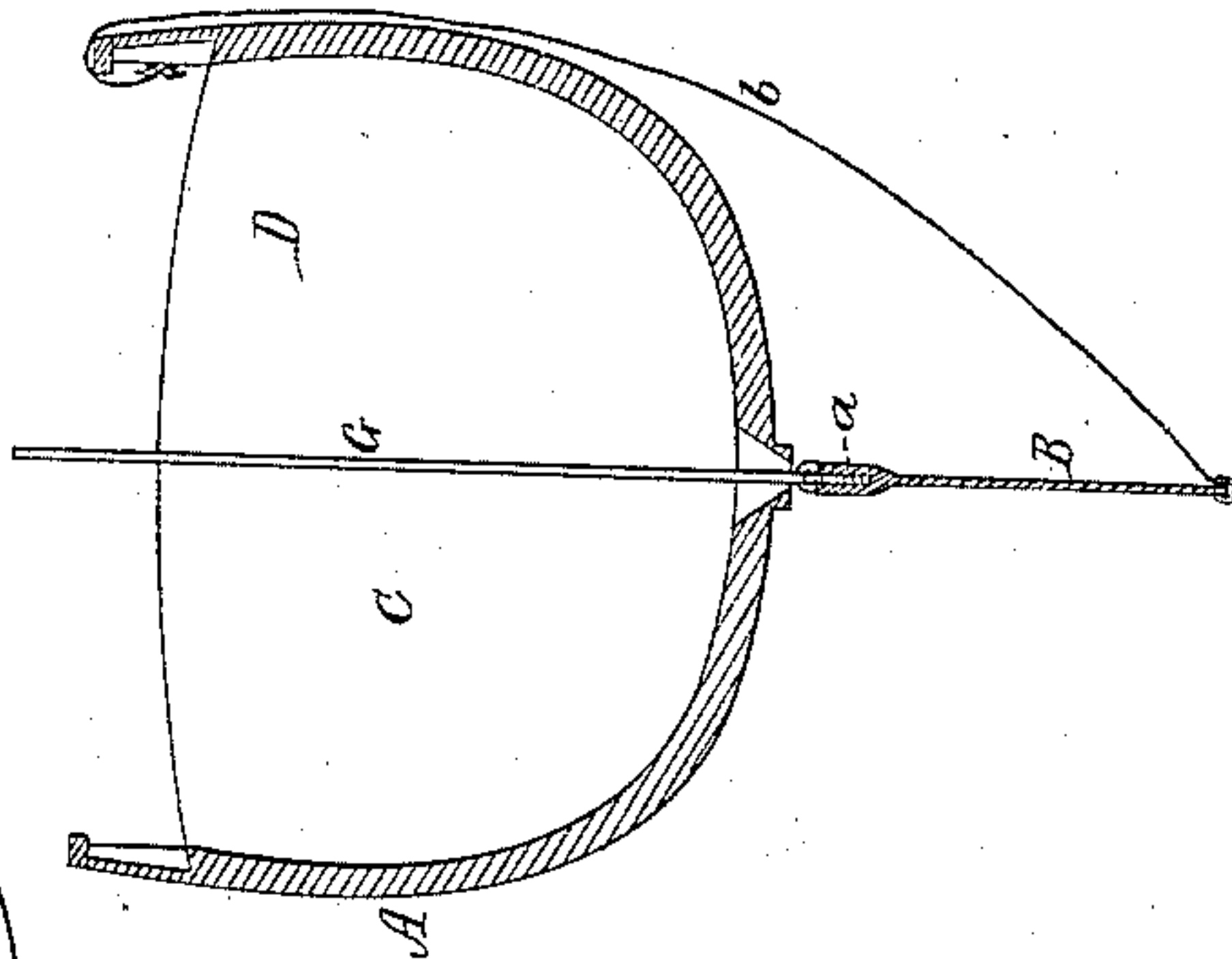


Fig. 2.



Witnesses:

S. N. Piper.
C. A. Pratt.

Inventor

Rufus B. Condon.
by *R. H. Eddy* atty.

UNITED STATES PATENT OFFICE.

RUFUS BARTLETT CONDON, OF BELFAST, MAINE.

NAVIGABLE VESSEL.

SPECIFICATION forming part of Letters Patent No. 314,435, dated March 24, 1885.

Application filed August 18, 1884. (No model.)

To all whom it may concern:

Be it known that I, RUFUS BARTLETT CON-
DON, of Belfast, in the county of Waldo, of
the State of Maine, have invented a new and
5 useful Improvement in Navigable Vessels; and
I do hereby declare the same to be described in
the following specification, and represented in
the accompanying drawings, of which—

Figure 1 is a side view with a portion of
10 the hull broken away; Fig. 2, a transverse
section of the hull of a navigable vessel pro-
vided with my invention, the nature of which
is defined in the claims hereinafter presented.

In carrying out my invention I hinge to the
15 hull or its keel, fore and aft thereof, a long and
thin pendulous plate or wing, having an arm
rigidly socketed in and extending upward from
it into a narrow chamber arranged transversely
in the hull and separated by water-tight
20 bulk-heads from the interior or hold-spaces
of the hull, abaft and forward of such cham-
ber, the whole being so that when the vessel
may be at sea and rolled by the waves the
hull will swing laterally more or less inde-
25 pendently of the said plate or wing, and there-
by cause the arm with force to vibrate later-
ally of and in the hull. In this way power
may be generated to operate a pump, or to
aid in propelling the vessel, or for any other
30 useful purpose. The said pendulous plate or
wing is to be made of metal or some mate-
rial or materials to cause it, when hinged
to a hull, to sink in the water and take a ver-
tical position therein when the hull may be
35 afloat.

In the drawings, the vessel's hull is shown
at A, the pendulous plate or wing hinged to
the keel at B, the transverse chamber at C,
the bulk-heads at D D, and the hold-spaces
40 forward and abaft of them at E and F. The
plate or wing has at its upper part a socket,
a, in it to receive the arm G, projecting up
from such wing into the chamber C. On with-
drawing the arm from the socket, the wing,
45 provided with a rope, b, attached to it at its
lower part, can be turned upward against the
bottom of the vessel in case of the hull going
into shoal water or before entering port. The
wing has other advantages, as it will operate

in some respects as a center-board usually 50
does.

I make no claim to the manner of attaching
a movable to a stationary keel and of ship-
ping and unshipping the same by means of
bolts and chains, as represented and described 55
in the United States Patent No. 4,016, such
movable keel being incapable of vibrating
laterally independently of the hull; and, fur-
thermore, I do not claim a hull provided with
vertical tubes projecting upward from its keel, 60
and having rods extending down through such
tubes and hinged to a center-board, such be-
ing as represented in the United States Pat-
ent No. 258,375, for in this case the rods can-
not be vibrated athwartships with and by the 65
center-board, and there is no narrow cham-
ber amidships in the hull and extending across
it, as in my invention.

I claim—

1. In combination with the hull of a navi- 70
gable vessel, a pendulous plate or wing
hinged to the bottom thereof, and provided
with a device or arm extended upward from
it (the said wing) within the hull and free
therein, so as to be vibrated by it (the said 75
wing) when the vessel may be at sea and rolled
by the waves.

2. The combination of a navigable vessel's
hull provided with a narrow chamber ar-
ranged in and athwartships of its hold, and 80
separated from the rest of the hold by water-
tight bulk-heads, with a vibratory or pendu-
lous wing hinged to the hull and extended
beneath it, and provided with a device or arm
projecting upward from it (the said wing) 85
into the said chamber, so as to be vibrated
therein by the said wing when the vessel may
be rolling at sea.

3. The combination, with the hull of a navi-
gable vessel, of a plate or wing hinged to and 90
extending down from its bottom and socketed
to receive a device or arm extending from it
(the said wing) up within the hold of the ves-
sel and free therein, so as to be capable of
being vibrated across it by the wing while the 95
hull may be rolling by the action of the sea,
all substantially as set forth.

4. The combination, with the hull of a navi-

gable vessel, of a pendulous plate or wing hinged to the bottom thereof, and provided not only with a device or arm extended upward into a narrow chamber, arranged in the
5 hull athwartships thereof and adapted to allow of such arm or device being by the plate vibrated within it transversely of the hull, but at or near its lower edge with a line or rope

extending from it to the deck, or thereat, such rope being for drawing the plate or wing upward to and flatwise against the hull, as specified.

RUFUS BARTLETT CONDON.

Witnesses:

R. H. EDDY,
E. B. PRATT.