



A.D. 1838 N° 7599.

Propelling Vessels.

LOWE'S SPECIFICATION.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, JAMES LOWE, of King Street, Old Kent Road, in the County of Surrey, Mechanic, send greeting.

WHEREAS Her present most Excellent Majesty Queen Victoria, by Her
5 Letters Patent under the Great Seal of Great Britain, bearing date at
Westminster, the Twenty-fourth day of March, in the first year of Her reign,
did, for Herself, Her heirs and successors, give and grant unto me, the said
James Lowe, Her especial license, full power, sole privilege and authority, that
I, the said James Lowe, my exors, admors, and assigns, or such others as I,
10 the said James Lowe, my exors, admors, or assigns, should at any time agree
with, and no others, from time to time and at all times during the term of
years therein expressed, should and lawfully might make, use, exercise, and
vend, within England, Wales, and the Town of Berwick-upon-Tweed, my
Invention of "**IMPROVEMENTS IN PROPELLING VESSELS;**" in which said Letters
15 Patent is contained a proviso that I, the said James Lowe, shall cause a par-
ticular description of the nature of my said Invention, and in what manner the
same is to be performed, to be inrolled in Her said Majesty's High Court of
Chancery within six calendar months next and immediately after the date of
the said in part recited Letters Patent, as in and by the same, reference being
2 thereunto had, will more fully and at large appear.

NOW KNOW YE, that in compliance with the said proviso, I, the said
James Lowe, do hereby declare the nature of my said Invention, and the
manner in which the same is to be performed, are fully described and ascer-
tained in and by the following statement thereof, reference being had to the

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Drawing hereunto annexed, and to the figures and letters marked thereon (that is to say):—

My Invention consists in a mode of propelling vessels by means of one or more curved blades set or affixed on a revolving shaft below the water line of the vessel, and running from stem to stern of the vessel. 5

DESCRIPTION OF THE DRAWING.

Figure 1 represents so much of the stern of a vessel having my apparatus applied thereto for propelling as will enable me to explain the nature of my Invention, *a* being the shaft or axis on which the curved blades are set or affixed; this shaft or axis is to receive rotatory motion from a steam engine or other suitable power. *b, b,* are four curved blades, each a portion of a curve, which, if continued, would produce a screw. But here I would remark, that screws have been heretofore attempted to be used, and have failed of success, which has been owing to the water not being able to pass away, but that may be said to produce a choking action; and my Invention is such that there being only sections or portions of a screw employed, each blade is a propelling instrument, which allows the water to pass away in all directions, except at that point where the instrument is in full action. Hence there is no choking or holding the water towards the centre of motion, which is the case in using complete screws. 10 15 20

Figure 2 shows a portion of the shaft or axis, having only one blade or section of a screw; and Figure 3 shows an arrangement of two blades, one placed in the same line with the other. But I should state that although this is an important improvement over the use of a complete screw, yet, so far as my experience has gone, I have not found such an arrangement so good as the using each section of a screw or blade out of the line of all other blades, as is shown in Figure 1. The blades, it will be seen, are at the stern of the vessel, and the shaft on a line parallel with the keel, and the shaft in passing through the vessel below the water line is through a stuffing box, in order to render the same water-tight. 25 30

It should be stated, that although I prefer to have the shaft above the keel, and in a parallel line with it, and the propellers at the stern of the vessel, I do not confine myself thereto, as a shaft or shafts below the water line, having similar propellers, may be used at other parts of the vessel, such as at the sides or at the dead wood, but I believe that such arrangements are not so convenient as those shown by the Drawing; and it should be stated that I am aware that propellers having somewhat similar action where some years ago experimented on, and for which Invention a Patent was taken by Edward Shorter, 35

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such propellers being carried by certain outriggers over the bow of the vessel, as is shown and described in the Specification of his Patent, but the same failed. I do not, therefore, claim the application of curved blades generally, but my Invention relates to the modes herein described of propelling vessels by
 5 applying one or more curved blades on shafts or axes below the water line of such vessels.

In witness whereof, I, the said James Lowe, have hereunto set my hand and seal, this Twenty-fourth day of September, in the year of our Lord One thousand eight hundred and thirty-eight.

10 JAMES (L.S.) LOWE.

AND BE IT REMEMBERED, that on the Twenty-fourth day of September, in the year of our Lord 1838, the aforesaid James Lowe came before our said Lady the Queen in Her Chancery, and acknowledged the Specification aforesaid, and all and every thing therein contained and specified, in form above
 15 written. And also the Specification aforesaid was stamped according to the tenor of the Statute made for that purpose.

LYNCH.

Inrolled the Twenty-fourth day of September, in the year of our Lord One thousand eight hundred and thirty-eight.

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FIG. 1.

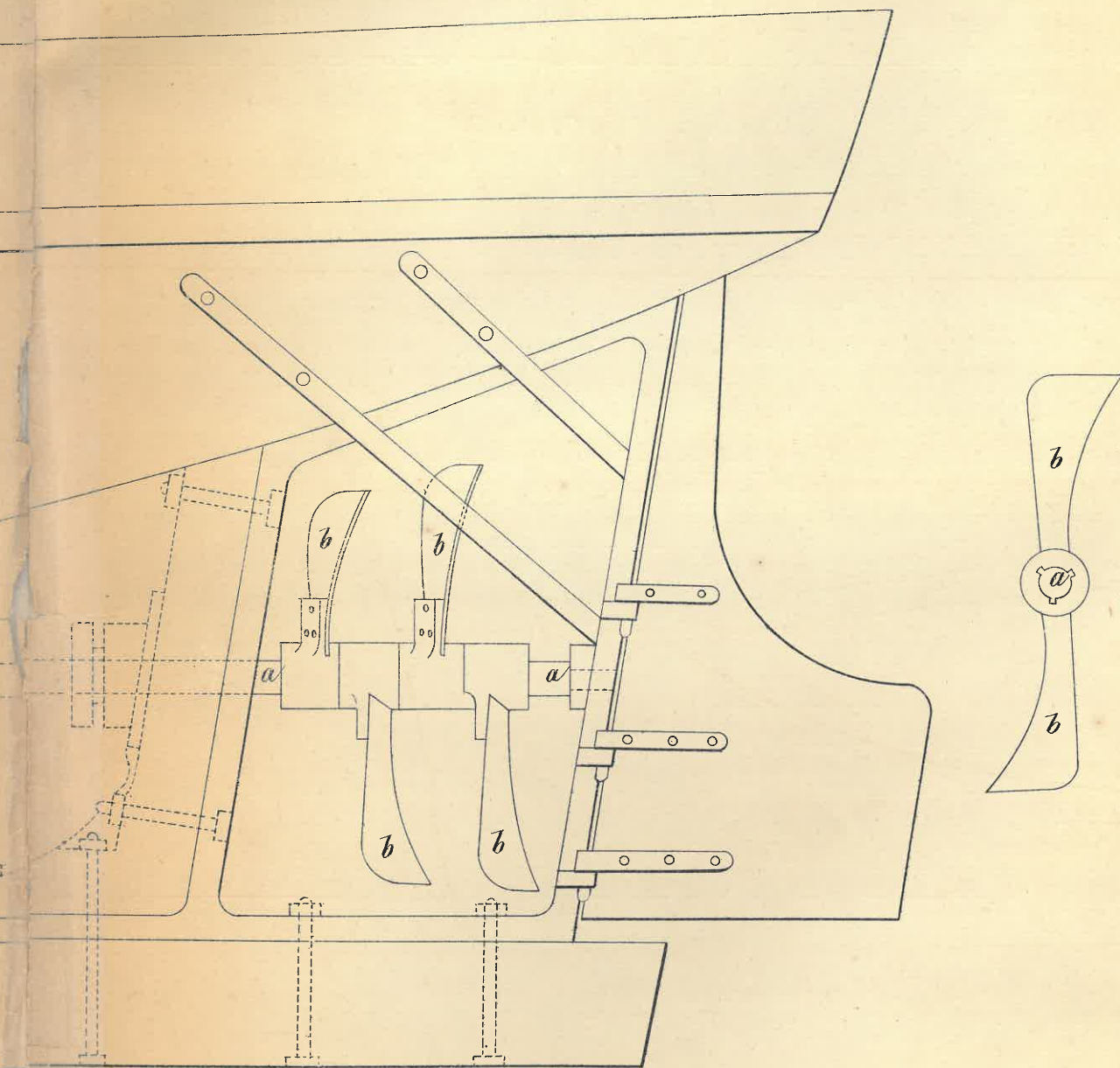


FIG. 1.

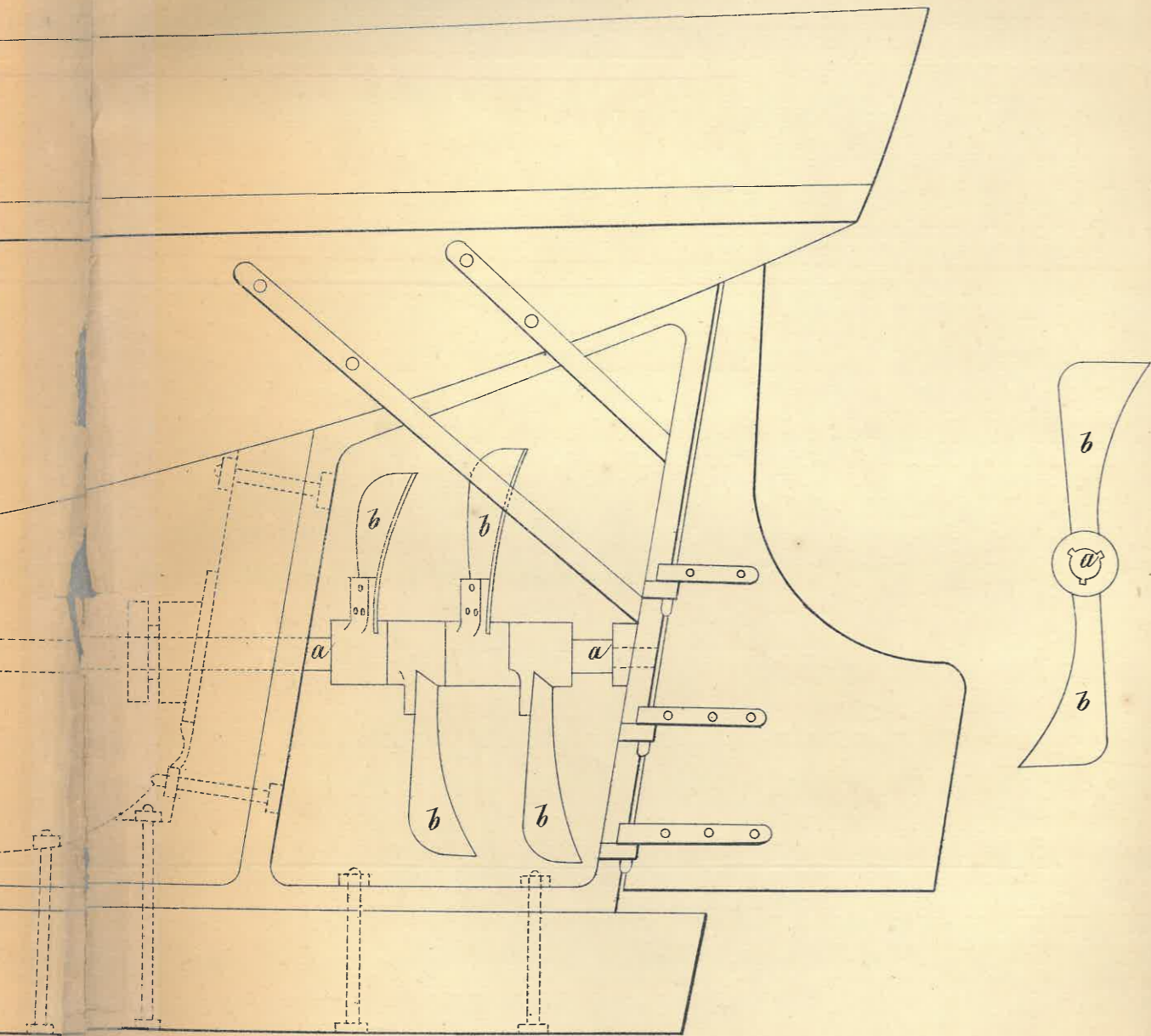
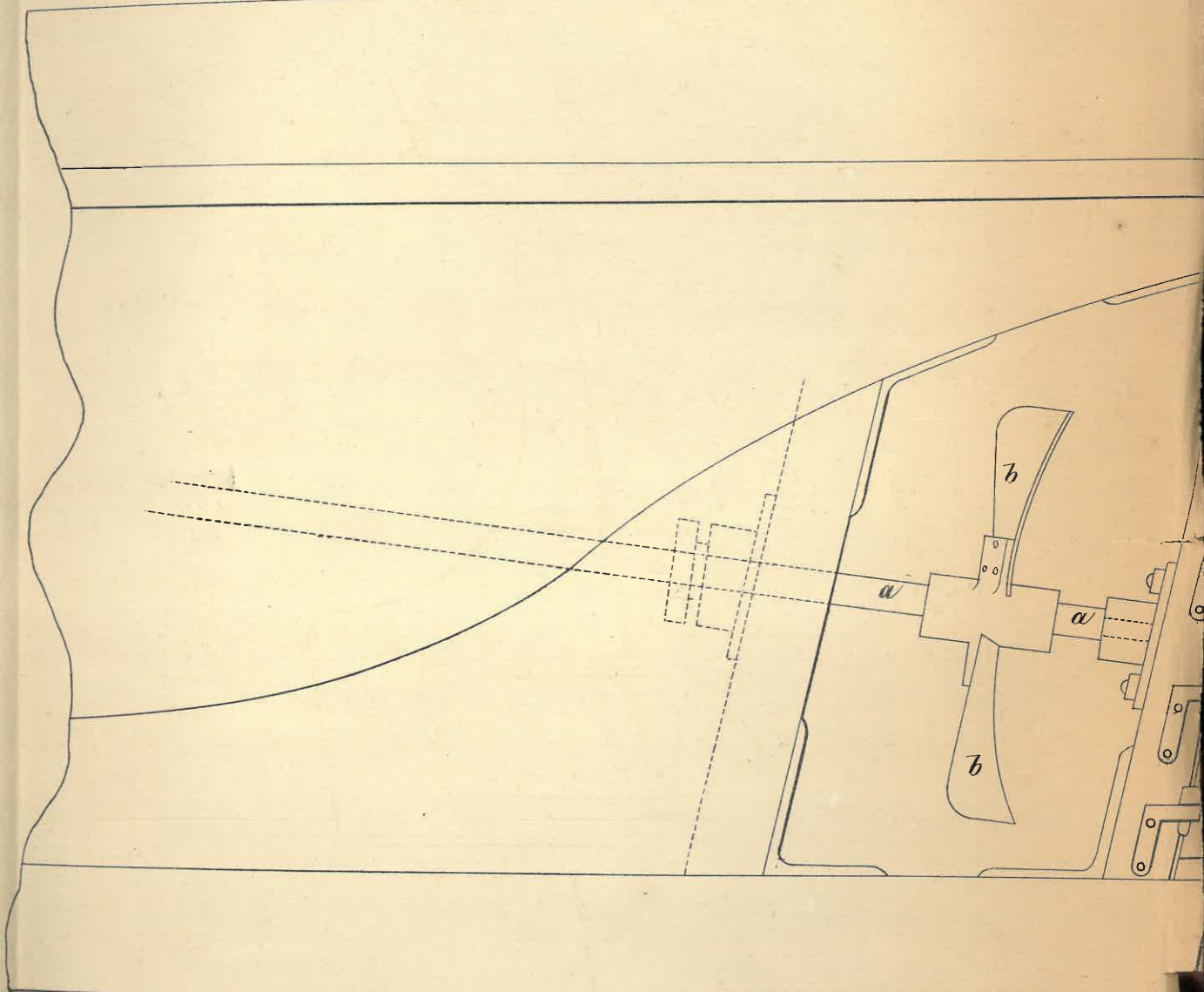


FIG. 3.



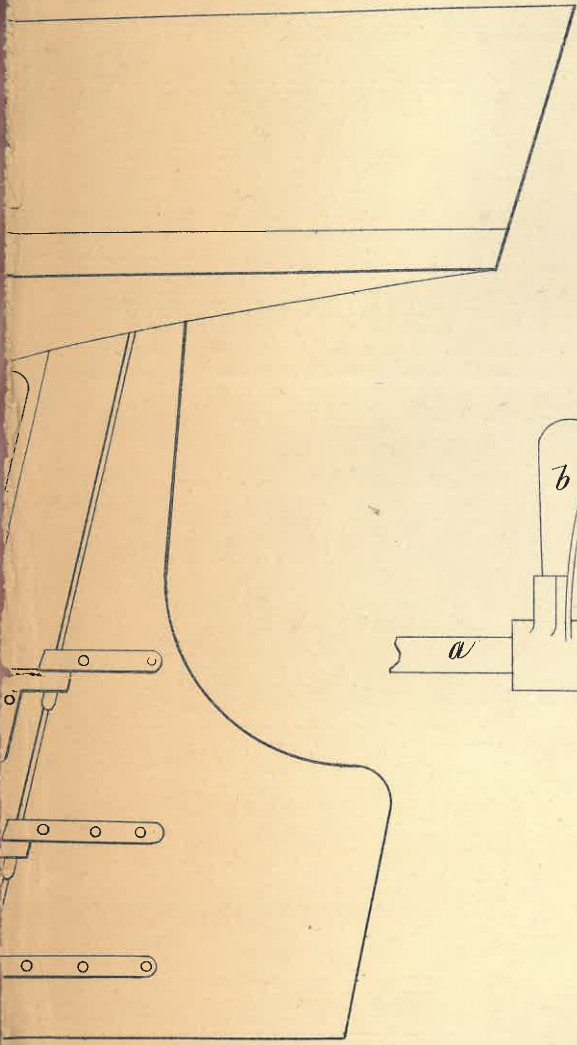


FIG. 2.

