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MAY 11, 1943.

BY A. P. C.

K. FARKAS

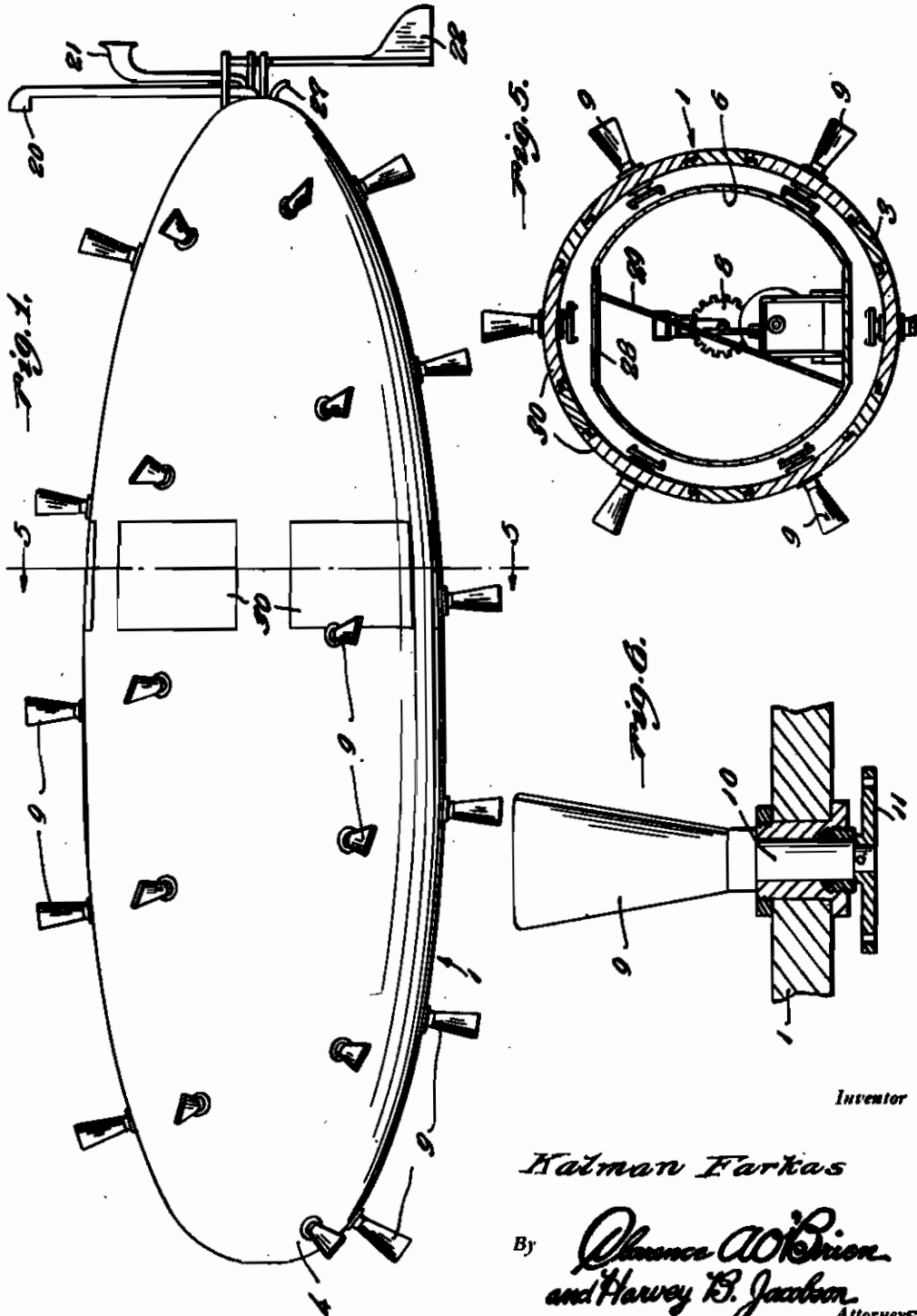
BOAT

Filed March 2, 1942

Serial No.

433,077

2 Sheets-Sheet 1



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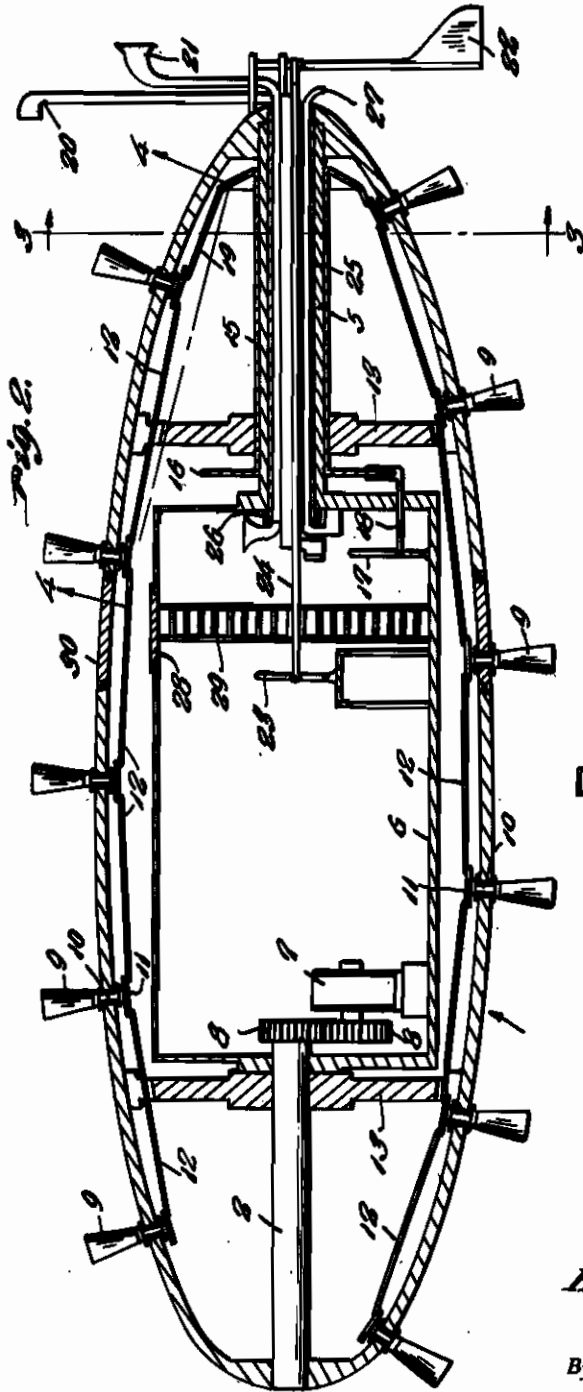


Fig. 2a

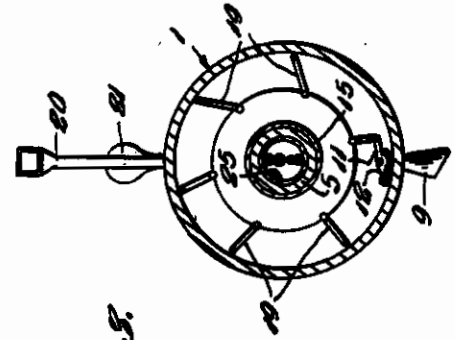
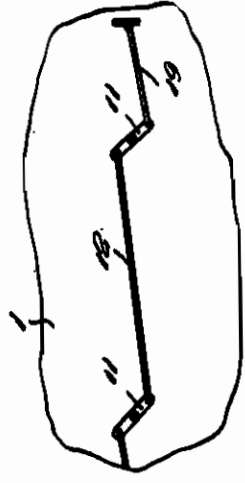


Fig. 3

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ALIEN PROPERTY CUSTODIAN

BOAT

Kalman Farkas, Budapest, Hungary; vested in
the Alien Property Custodian

Application filed March 2, 1942

The present invention relates to new and useful improvements in boats and has for its primary object to provide, in a manner as hereinafter set forth, a vessel which is capable of great speed and which includes novel propelling means.

Other objects of the invention are to provide a boat of the character described which will be simple in construction, strong, durable, safe and which may be built and operated at low cost.

All of the foregoing and still further objects and advantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawing wherein like characters of reference designate corresponding parts throughout the several views, and wherein:

Figure 1 is a view in side elevation of a boat constructed in accordance with the present invention.

Figure 2 is a view in vertical longitudinal section through the boat.

Figure 3 is a cross-sectional view, taken substantially on the line 3—3 of Figure 2.

Figure 4 is a fragmentary view in section, taken substantially on the line 4—4 of Figure 2.

Figure 5 is a cross-sectional view, taken substantially on the line 5—5 of Figure 1.

Figure 6 is a detail view in section, showing the mounting of one of the rotatably adjustable propeller blades on the hull.

Referring now to the drawing in detail, it will be seen that the embodiment of the invention which has been illustrated comprises a hull 1 of suitable dimensions and material, said hull being in the form of a streamlined shell. Fixed in the forward end portion of the hull 1 is a centrally located longitudinal tubular shaft 2. The rear end portion of the shaft 2 is fixed in a suitable support 3 in the hull 1. The forward end portion of the shaft 2 is mounted in the nose 4 of the hull 1. Rotatably mounted in the rear or stern end portion of the hull 1 is a tubular shaft 5 which is aligned with the shaft 2. Mounted on the shafts 2 and 5 is a pendulous enclosure or cabin 6 the walls of which are spaced from those of the hull 1. The forward end of the cabin 6 is journaled on the shaft 2. At its rear end, the cabin 6 is fixed to the shaft 5.

A power plant 7 in the cabin 6 drives the shaft 2 through gears 8. In this manner the hull 1, to which the shaft 2 is fixed, is rotated about the pendulous cabin 6.

Rotatably mounted on the hull 1 are variable pitch propeller blades 9. As best seen in Figures 1 and 2 of the drawing, the propeller blades 9 are arranged spirally on the hull 1 and also define longitudinal rows. Fixed on the inner end portions of the stems 10 of the propeller blades 9 are

crossheads 11. Rods 12 connect the crossheads 11 of the blades 9 comprising the longitudinal rows for adjusting said blades in unison.

A support 13 is provided in the hull 1 for the forward portion of the tubular shaft 5. Slidable on the tubular shaft 5 is a sleeve 15 which passes through the support 13. On the forward end of the sleeve 15 is a flange 16. A hand lever 17 in the cabin 6 is operatively connected to the tubular sleeve 16 by a yoke 18 which is engaged with the flange 16. It will be noted that the construction is such that the sleeve 15 may rotate relative to the cabin 6 with the hull 1. Rods 19 connect the rear end of the sleeve 15 to the adjacent propeller blades 9.

Extending through the tubular shaft 5 is a periscope 20. Also extending through the tubular shaft 5 and communicating with the cabin 6 is a ventilator 21. Mounted on the stern of the hull 1 is a rudder 22. A hand lever 23 in the cabin 6 actuates the rudder 22 through the medium of a rod 24, said rod being operable in the tubular shaft 5. A lining or bushing 25 is provided in the tubular shaft 5. A closure 26 on the forward end portion of the lining 25 closes and seals the forward end of the tubular shaft 5 around the members 20, 24, etc., for preventing water from entering the cabin 6. Also extending through the tubular shaft 5 is a water discharge tube 27.

It is thought that the operation of the boat will be readily apparent from a consideration of the foregoing. Briefly, the cabin 6 is suspended by gravity in a vertical position. As hereinbefore stated, the power plant 7 rotates the hull 1 through the gears 8, the shaft 2, etc. When the hull 1 is thus rotated said hull is caused to move forwardly through the water by the blades 9. By moving the sleeve 15 longitudinally on the tubular shaft 5 through the medium of the hand lever 17 the pitch of the blades 9 may be adjusted as desired. Also, if desired, the sleeve 15 may be connected to a suitable governor driven by the power plant 7 thereby automatically changing the pitch of the propeller blades 9. A door 28 is provided in the top of the cabin 6 to which access is had through the medium of a ladder 29. The hull 1 is provided with a plurality of doors 30.

It is believed that the many advantages of a boat constructed in accordance with the present invention will be readily understood and although a preferred embodiment of said boat is as illustrated and described, it is to be understood that changes in the details of construction and in the combination and arrangement of parts may be resorted to which will fall within the scope of the invention as claimed.

KALMAN FARKAS.