

CLAIMS

1. A retractable thruster arrangement comprising
 - a propulsion container (1) comprising space for a propeller driver, the propulsion container having a first end (3) and a second end (4), said second end (4) having a surface,
 - a truck (5) inside which the propulsion container (1) is moveably mounted, allowing the propulsion container (1) to be moved between a first position and a second position,
 - a first sealing arrangement (6,7) arranged to seal, in the first position of the propulsion container, a first gap (17) between the propulsion container (1) and the truck (5) to define a first watertight space on a second side of the first sealing arrangement, and
 - a second sealing arrangement (8) arranged essentially at the second end (4) of the propulsion container (1) and arranged to seal, in the second position of the propulsion container, a second gap between the propulsion container (1) and the truck (5) to define a second watertight space on a second side of the second sealing arrangement, said second sealing arrangement (8) comprising a primary propulsion container seal (9) arranged in a functional connection with the surface of the second end (4) of the propulsion container (1).
2. A retractable thruster arrangement according to claim 1, **characterised** in that the primary propulsion container seal (9) is arranged on the surface of the second end (4) of the propulsion container (1).
3. A retractable thruster arrangement according to claim 1 or 2, **characterised** in that the second sealing arrangement (8) further comprises a secondary sealing surface (10) arranged on the surface of the second end (4) of the propulsion container (1) and a secondary propulsion container seal (11) arranged in a functional connection with said secondary sealing surface (10).

CLAIMS

1. A retractable thruster arrangement comprising
 - a propulsion container (1) comprising space for a propeller driver, the propulsion container having a first end (3) and a second end (4), said second end (4) having a surface,
 - a truck (5) inside which the propulsion container (1) is moveably mounted, allowing the propulsion container (1) to be moved between a first position and a second position,
 - a first sealing arrangement (6,7) arranged to seal, in the first position of the propulsion container, a first gap (17) between the propulsion container (1) and the truck (5) to define a first watertight space on a second side of the first sealing arrangement, and
 - a second sealing arrangement (8) arranged essentially at the second end (4) of the propulsion container (1) and arranged to seal, in the second position of the propulsion container, a second gap between the propulsion container (1) and the truck (5) to define a second watertight space on a second side of the second sealing arrangement, said second sealing arrangement (8) comprising a primary propulsion container seal (9) arranged in a functional connection with the surface of the second end (4) of the propulsion container (1).
2. A retractable thruster arrangement according to claim 1, **characterised** in that the primary propulsion container seal (9) is arranged on the surface of the second end (4) of the propulsion container (1).
3. A retractable thruster arrangement according to claim 1 or 2, **characterised** in that the second sealing arrangement (8) further comprises a secondary sealing surface (10) arranged on the surface of the second end (4) of the propulsion container (1) and a secondary propulsion container seal (11) arranged in a functional connection with said secondary sealing surface (10).

4. A retractable thruster arrangement according to claim 3, characterised in that the secondary propulsion container seal (11) is arranged on a seal holder (12) attachable to the trunk (5). 5. A retractable thruster arrangement according to any of the preceding claims, characterised in that the first sealing arrangement (6, 7) is arranged essentially at the first end (3) of the propulsion container (1). 6. A retractable thruster arrangement according to any of the preceding claims, characterised in that the first sealing arrangement (6, 7) comprises a primary seal (6) and a secondary seal (7). 7. A retractable thruster arrangement according to claim 6, characterised in that the primary seal (6) of the first sealing arrangement is arranged essentially at the first end (3) of the propulsion container (1) and the secondary seal (7) of the first sealing arrangement is arranged at a distance D1 from said primary seal (6). 8. A retractable thruster arrangement according to any of the preceding claims, characterised in that it further comprises means for moving the propulsion container between a first position and a second position, said means comprising a drive mechanism coupled between the trunk (5) and the propulsion container (1). 9. A vessel comprising at least one retractable thruster arrangement according to any of the claims 1-8 and an opening (15) for accessing the thruster arrangement, said opening (15) being essentially smaller than the cross-section of the propulsion container (1).	4. A retractable thruster arrangement according to claim 3, characterised in that the secondary propulsion container seal (11) is arranged on a seal holder (12) attachable to the trunk (5). 5. A retractable thruster arrangement according to any of the preceding claims, characterised in that the first sealing arrangement (6, 7) is arranged essentially at the first end (3) of the propulsion container (1). 6. A retractable thruster arrangement according to any of the preceding claims, characterised in that the first sealing arrangement (6, 7) comprises a primary seal (6) and a secondary seal (7). 7. A retractable thruster arrangement according to claim 6, characterised in that the primary seal (6) of the first sealing arrangement is arranged essentially at the first end (3) of the propulsion container (1) and the secondary seal (7) of the first sealing arrangement is arranged at a distance D1 from said primary seal (6). 8. A retractable thruster arrangement according to any of the preceding claims, characterised in that it further comprises means for moving the propulsion container between a first position and a second position, said means comprising a drive mechanism coupled between the trunk (5) and the propulsion container (1). 9. A vessel comprising at least one retractable thruster arrangement according to any of the claims 1-8 and an opening (15) for accessing the thruster arrangement, said opening (15) being essentially smaller than the cross-section of the propulsion container (1).
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10. A method for servicing a propeller driver arranged in a propulsion container of a retractable thruster arrangement in a vessel, said propulsion container having a first position wherein the propeller is below the base line of the vessel and a second position wherein the propeller is above the base line of the vessel, comprising the steps of

- in the first position of the propulsion container, with a first sealing arrangement, forming a first watertight space above the upper surface of the propulsion container and below the water line, thus rendering the propulsion container accessible, and
- in the second position of the propulsion container, with a second sealing arrangement, forming a second watertight space above the upper surface of the propulsion container and below the water line, thus rendering the propulsion container accessible.

10. A method for servicing a propeller driver arranged in a propulsion container of a retractable thruster arrangement in a vessel, said propulsion container having a first position wherein the propeller is below the base line of the vessel and a second position wherein the propeller is above the base line of the vessel, comprising the steps of

- in the first position of the propulsion container, with a first sealing arrangement, forming a first watertight space above the upper surface of the propulsion container and below the water line, thus rendering the propulsion container accessible, and
- in the second position of the propulsion container, with a second sealing arrangement, forming a second watertight space above the upper surface of the propulsion container and below the water line, thus rendering the propulsion container accessible.