

Title (en)

NON-POSITIVE DISPLACEMENT ENGINE WITH A HOUSING HAVING IMPROVED WATERTIGHTNESS

Title (de)

STRÖMUNGSMASCHINE MIT EINEM GEHÄUSE MIT ERHÖHTER DICHTHEIT

Title (fr)

MACHINE A DEPLACEMENT NON-POSITIF, AVEC UN BOITIER A ETANCHEITE AMELIOREE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2010100094A2] The invention relates to a turbomachine having a housing (2), at least one propeller (3) outside of the housing (2), a propeller shaft (4) that is coupled to the propeller (3), wherein the propeller shaft (4) is mounted within the housing (2) and led out of the housing (2) via an opening (5), a transmission (6) that is coupled to the propeller shaft (4), wherein the transmission (6) is arranged within the housing (2) and comprises a transmission housing (7) and a shaft seal (9) that seals the opening (5) against the entry of fluid into the housing (2), the transmission housing (7) is at least partially filled with a transmission fluid (8) and the shaft seal (9) contacts the transmission housing (7) or is integrated in the transmission housing (7). Mechanical and thermal stress to the shaft seal and, consequently, the risk of leaks can thus be reduced.

IPC 8 full level

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