

Title (en)

MEDIUM PRESSURE STEAM TURBINE FOR A HIGH TEMPERATURE STEAM PLANT WITH INTERMEDIATE REHEATING

Publication

EP 0122872 B1 19870304 (DE)

Application

EP 84730019 A 19840308

Priority

DE 3310396 A 19830318

Abstract (en)

[origin: US4551063A] In a medium-pressure steam turbine of single-flow chamber type design, for use as a ship's turbine, cooling steam is conveyed via holes in the wall of the inflow part for cooling the rotor surface and the first few rows of rotor blades. The cooling steam is guided by a baffle at the wall of the inflow part to annular spaces between the shaft seal of the guide vanes and the rotor surface and via axial cooling ducts in the rotor to the bases of the rotor blades. At each rotor blade of the rows connected by the axial cooling ducts, radial connecting canals are provided in the blade bases for guiding the cooling steam into axial canals which connect the annular spaces under the shaft seals of the adjacent guide vanes.

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F01D 5/08

IPC 8 full level

F01D 5/08 (2006.01)

CPC (source: EP US)

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Cited by

EP0926311A1; EP1845234A1; DE10392802B4

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DE SE

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EP 0122872 A1 19841024; EP 0122872 B1 19870304; DE 3310396 A1 19840920; DE 3462536 D1 19870409; US 4551063 A 19851105

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EP 84730019 A 19840308; DE 3310396 A 19830318; DE 3462536 T 19840308; US 58626284 A 19840305