

Title (en)

TURBINE FOR ORGANIC RANKINE CYCLES WITH AXIAL INPUT AND OUTPUT

Title (de)

TURBINE FÜR ORGANISCHE RANKINE-KREISLÄUFE MIT AXIALEM EINGANG UND AUSGANG

Title (fr)

TURBINE POUR CYCLES DE RANKINE ORGANIQUES À ENTRÉE ET SORTIE AXIALES

Publication

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Application

EP 16713990 A 20160301

Priority

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- IB 2016051121 W 20160301

Abstract (en)

[origin: WO2016139574A1] Expansion turbine (100) for a working fluid in an organic Rankine cycle, comprising a housing (21), at least one inlet duct (10) for working fluid feeding and an outlet duct (20) for working fluid discharge, at least one statoric group (22) comprising a statoric blades array (23), at least a rotor group (24), comprising corresponding rotor blades array (25), respectively upstream and downstream of the working fluid direction, and a turbine shaft (26) which supports the rotor group and being said turbine (100), characterized in that at least one end portion (10 ", 14) of the inlet duct (10), in fluid connection with an inlet opening (101) of the turbine (100), is oriented in an axial direction and at least an initial portion (20 ') of the outlet duct (20) in fluid connection with an outlet opening (102) of the turbine (100), is oriented in the axial direction and that said end portions (10 ", 14) of the inlet duct (10) and said initial portion (20 ') of the outlet duct (20) are both arranged on one end of the housing (21).

IPC 8 full level

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