

Title (en)
TURBO-MACHINE FOR A WASTE HEAT UTILIZATION DEVICE AND WASTE HEAT UTILIZATION DEVICE

Title (de)
TURBOMASCHINE FÜR EINE ABWÄRMENUTZUNGSVORRICHTUNG UND ABWÄRMENUTZUNGSVORRICHTUNG

Title (fr)
TURBOMACHINE POUR UN DISPOSITIF D'UTILISATION DE CHALEUR PERDUE ET DISPOSITIF D'UTILISATION DE CHALEUR PERDUE

Publication
EP 2976508 A1 20160127 (EN)

Application
EP 13802743 A 20130425

Priority
RU 2013000363 W 20130425

Abstract (en)
[origin: WO2014175764A1] Turbomachine (10) for a waste heat utilization device, comprising a shaft (12) rotatable about an axis of rotation (14), a first turbine stage (16) having a first turbine wheel (22) coupled to the shaft (12), at least one second turbine stage (18) having a second turbine wheel (26) coupled to the shaft (12), the second turbine stage (18) being arranged downstream of the first turbine stage (16) in the direction of flow of a working fluid flowing through the turbine stages (16, 18) and driving the shaft (12) via the turbine wheels (22, 26) and a generator unit (30) coupled to the shaft (12), the generator unit (30) being capable of transforming mechanical energy provided by the shaft (12) into electric energy, the turbomachine further comprising at least one cooling path (36) for cooling at least a portion of the generator unit (30) by means of the working fluid flowing through the cooling path upstream of the second turbine stage and downstream of the first turbine stage.

IPC 8 full level
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Citation (search report)
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