

Title (en)
TURBOMACHINE

Title (de)
STRÖMUNGSMASCHINE

Title (fr)
TURBOMACHINE

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Abstract (en)
[origin: WO2012089837A1] The invention relates to a turbomachine, in particular a turbine, comprising a housing which has at least one inflow channel (10). A plurality of blades is arranged on a rotor (2) and a working medium flows towards said blades. The working medium flows via the inflow channel (10) into at least one blade channel (20) which is formed between two blades (21) that are accommodated on the rotor (2). After exiting the rotor region, the working medium enters a diffuser (4). At least one guide body (3, 3") is provided for deflecting the working medium which flows out of the blade channel (20) in the direction of the diffuser (4). At least some sections of the guide body in the turbomachine are preferably positioned in an intermediate region (29) of the rotor (2), which intermediate region (29) is surrounded in the radial direction by the rotor blades (21) and lies between a blade-channel outlet (23) and an inlet opening (24) in an outlet channel (40) which is connected downstream of the rotor (2) and is formed by the diffuser (4). The invention also relates to a system for carrying out an organic Rankine cycle process by means of a turbomachine of this type.

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