

Title (en)
TURBOCHARGER WITH A RADIAL/AXIAL TURBINE WHEEL

Title (de)
ABGASTURBOLADER MIT EINEM RADIAL-AXIAL-TURBINENRAD

Title (fr)
TURBOCOMPRESSEUR À GAZ D'ÉCHAPPEMENT AVEC ROUE DE TURBINE RADIALE-AXIALE

Publication
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Application
EP 14719804 A 20140429

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Abstract (en)
[origin: WO2014198453A1] The invention relates to a turbocharger which has a shaft (30) with a rotational axis (30a), a radial/axial turbine wheel (12) which is arranged in a turbine housing (10) and which is connected to the shaft (30) in a non-rotatable manner, and a bearing housing (20) which adjoins the turbine housing and which contains a lateral wall facing the turbine housing. A sub-region of the lateral wall of the bearing housing (20) forms a sub-region of the rear wall of the turbine housing (10). Said sub-region of the bearing housing (20) has two sub-sections, one (TA1) of which runs diagonally to the rotational axis (30a) in an inflow direction of an exhaust gas flow conducted into the turbine housing and the second (TA2) of which runs in a radial direction relative to the rotational axis of the shaft and parallel to the rear wall of the turbine wheel. The two sub-sections (TA1, TA2) are connected to each other via an exhaust gas flow separation edge (35) of the bearing housing.

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