

Title (en)  
BEARING ARRANGEMENT FOR A SHAFT OF A TURBINE WHEEL

Title (de)  
LAGERANORDNUNG FÜR EINE WELLE EINES TURBINENRADES

Title (fr)  
ENSEMBLE PALIER POUR ARBRE DE ROTOR DE TURBINE

Publication  
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Application  
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Abstract (en)  
[origin: WO2012072186A1] The invention relates to a bearing arrangement for a shaft (3) of a turbine wheel (2) or of a turbine wheel (2) and of a compressor wheel (4), wherein - the turbine wheel (2) is driven by the exhaust gas of a vehicle drive unit, said bearing arrangement comprising - a static housing (9), which - together with a bearing bushing (10) arranged in a rotationally movable manner relative to the housing (9) - encloses a first bearing gap (11), wherein - the bearing bushing (10) accommodates the shaft (3) in a rotationally movable manner and encloses a second bearing gap (12) together with the shaft. The invention is characterized in that a ratio ( $R1/R2$ ) of radii ( $R1$ ,  $R2$ ) of the first bearing gap (11) and of the second bearing gap (12) with respect to a rotational axis (14) of the shaft (3) changes at least once over the maximum axial extent (x) of the bearing bushing (10).

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