

Title (en)
TURBINE AND METHOD FOR DETECTING RUBBING

Title (de)
TURBINE UND VERFAHREN ZUR ANSTREIFERKENNUNG

Title (fr)
TURBINE ET PROCÉDÉ DE DÉTECTION DE FROTTEMENT

Publication
EP 2994617 A1 20160316 (DE)

Application
EP 14738405 A 20140618

Priority
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• EP 2014062787 W 20140618

Abstract (en)
[origin: WO2014206822A1] It is intended that a turbine (100), in particular a gas turbine, comprising a rotor (103), a housing (138) spaced from the rotor (103) by a gap (d), and a system for monitoring structure-borne noise, permit rubbing of the rotor and the housing to be localised with the least possible technical complexity. For this purpose, in both a first and second axial region, one or more inwardly directed rubbing teeth (146) of the housing (138) and one or more outwardly directed rubbing edges (148) of the rotor (103) are arranged, wherein the one or more rubbing teeth (146) and the one or more rubbing edges (148) are distributed along the circumference in such a way that contact of the particular rubbing teeth (146) and rubbing edges (148) at a specified rotational frequency of the rotor (103) occurs at a different frequency in the first axial region than in the second axial region.

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