

Title (en)  
TURBINE ENGINE WITH TURBINE HOUSING HAVING AN ABRADABLE LAYER WITH COMPOUND ANGLE, ASYMMETRIC SURFACE AREA DENSITY RIDGE AND GROOVE PATTERN

Title (de)  
TURBINENTRIEBWERK MIT TURBINENGEHÄUSE MIT ABREIBBARER SCHICHT MIT ZUSAMMENGESETZTEN ZWEIWINKEL-RIPPEN UND -NUTEN MIT ASYMMETRISCHER FLÄCHENDICHTE

Title (fr)  
MOTEUR DE TURBINE AVEC CARTER DE TURBINE COMPRENANT UNE COUCHE ABRADABLE AVEC NERVURES ET RAINURES RECTILIGNES BI-ANGULAIRES AVEC DENSITÉ ASYMÉTRIQUE DE SURFACE

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Application  
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- US 2015016309 W 20150218

Abstract (en)  
[origin: WO2015130522A1] Turbine casing abrasible component having an abrasible surface with ridges (1322) projecting from the abrasible surface, separated by grooves (1328). The ridges have one or both sidewalls (1325, 1326) inclined against the opposing turbine blade tip rotational direction for redirecting and/or dissipating blade tip gap leakage airflow energy. In some embodiments the ridge tip (1324) and/or groove base (1327) have inclined profiles for redirecting airflow leakage away from the blade tip gap. In some embodiments, the inclined ridge tip profile provides a progressive wear zone that increases abrasible surface area as the inclined ridge is abraded by the rotating blade tip.

IPC 8 full level  
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CPC (source: EP)  
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