

Title (en)  
HIGH TEMPERATURE SEAL SYSTEM

Title (de)  
HOCHTEMPERATURDICHTUNGSSYSTEM

Title (fr)  
SYSTÈME D'ÉTANCHÉITÉ À HAUTE TEMPÉRATURE

Publication  
**EP 2771548 A1 20140903 (EN)**

Application  
**EP 12756055 A 20120822**

Priority  
• US 201113283766 A 20111028  
• US 2012051783 W 20120822

Abstract (en)  
[origin: WO2013062668A1] A hydrodynamic sealing system for use in an oxidizing environment includes a rotor and a sealing stator. The stator includes a solid lubricant or a surface treatment and the rotor is hardened or the stator is hardened and the rotor includes the solid lubricant or the surface treatment. The stator is located proximate to the rotor to provide a seal. The stator and the rotor are robust at extreme temperatures above 700 degrees Fahrenheit (F) such that at least one of the stator and the rotor have a wear rate and a surface roughness sufficient to maintain an operating gap between the stator and rotor.

IPC 8 full level  
**F01D 11/02** (2006.01); **F16J 15/453** (2006.01)

CPC (source: EP US)  
**F01D 11/02** (2013.01 - EP US); **F05D 2230/41** (2013.01 - EP US); **F05D 2300/132** (2013.01 - EP US); **F05D 2300/2282** (2013.01 - EP US); **F05D 2300/2291** (2013.01 - EP US); **Y02T 50/60** (2013.01 - EP US)

Citation (search report)  
See references of WO 2013062668A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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**US 2012051783 W 20120822**; BR 112014008964 A 20120822; CA 2852008 A 20120822; CN 201280052956 A 20120822; EP 12756055 A 20120822; IN 3563CHN2014 A 20140512; JP 2014538792 A 20120822; US 201113283766 A 20111028