

Title (en)  
VARIABLE GEOMETRY TURBINE

Title (de)  
TURBINE MIT VARIABLER GEOMETRIE

Title (fr)  
TURBINE A GEOMETRIE VARIABLE

Publication  
**EP 2486245 A2 20120815 (EN)**

Application  
**EP 10776114 A 20101006**

Priority  

- GB 201012488 A 20100726
- GB 0917513 A 20091006
- GB 201005680 A 20100406
- GB 2010001869 W 20101006

Abstract (en)  
[origin: WO2011042695A2] According to a first aspect of the present invention there is provided a variable geometry turbine comprising: a turbine wheel mounted for rotation about a turbine axis within a housing, the housing defining an annular inlet surrounding the turbine wheel and defined between first and second inlet sidewalls, the annular inlet being divided into at least two axially offset inlet portions; a cylindrical sleeve axially movable across the annular inlet to vary the size of a gas flow path through the inlet; wherein an axial extent of a leading end of the sleeve varies in magnitude around a circumference of the sleeve. The variation in the axial extent defines a plurality of recesses and/or protrusions located around the circumference of the leading end of the sleeve. The sleeve, or the axial extent thereof, is free of vanes.

IPC 8 full level  
**F01D 17/18** (2006.01); **F01D 17/14** (2006.01)

CPC (source: EP)  
**F01D 17/141** (2013.01); **F01D 17/18** (2013.01); **F05D 2220/40** (2013.01); **F05D 2240/12** (2013.01); **F05D 2250/182** (2013.01); **F05D 2250/611** (2013.01)

Citation (search report)  
See references of WO 2011042695A2

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2011042695 A2 20110414; WO 2011042695 A3 20111103**; BR 112012007831 A2 20160308; CN 102667071 A 20120912; EP 2486245 A2 20120815; IN 2723DEN2012 A 20150911

DOCDB simple family (application)  
**GB 2010001869 W 20101006**; BR 112012007831 A 20101006; CN 201080055326 A 20101006; EP 10776114 A 20101006; IN 2723DEN2012 A 20120329