

Title (en)
TURBINE ASSEMBLY

Title (de)
TURBINENANORDNUNG

Title (fr)
ENSEMBLE DE TURBINE

Publication
EP 3241991 A1 20171108 (EN)

Application
EP 16168430 A 20160504

Priority
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Abstract (en)
A turbine assembly (10, 10a) comprises a hollow aerofoil (12) having at least a main cavity (14) and a leading edge cavity (16, 16a), at least one shared central wall (22) connecting the main cavity and the leading edge cavity and comprising at least one main impingement hole (24), a left side cavity (28), and a right side cavity (30), wherein each of the left and right side cavities is connected to the leading edge cavity by a left, respectively a right partitioning wall (32,34), both respectively positioned at opposed sides of the leading edge cavity in respect to a fictitious connection (36) of a midpoint (38) of the at least one main impingement hole and the leading edge and wherein each of the at least one partitioning walls comprises at least one side impingement hole (40, 42).

IPC 8 full level
F01D 5/18 (2006.01); **F01D 9/06** (2006.01)

CPC (source: EP)
F01D 5/187 (2013.01); **F01D 9/065** (2013.01); **F05D 2240/121** (2013.01); **F05D 2240/125** (2013.01); **F05D 2240/303** (2013.01); **F05D 2240/307** (2013.01); **F05D 2260/201** (2013.01); **F05D 2260/205** (2013.01)

Citation (search report)
• [XYI] WO 2015195086 A1 20151223 - SIEMENS ENERGY INC [US]
• [Y] US 8070443 B1 20111206 - LIANG GEORGE [US]
• [Y] EP 2881541 A1 20150610 - ROLLS ROYCE DEUTSCHLAND [DE], et al

Cited by
EP3653839A1; EP3477054A3; US10584593B2; US10968753B1

Designated contracting state (EPC)
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Designated extension state (EPC)
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