

Title (en)
SHEATH WITH EXTENDED WINGS

Title (de)
HÜLLE MIT ERWEITERTEN FLÜGELN

Title (fr)
GAINE À AILES ÉTENDUES

Publication
EP 2904215 A1 20150812 (EN)

Application
EP 13843675 A 20131001

Priority
• US 201213632288 A 20121001
• US 2013062841 W 20131001

Abstract (en)
[origin: WO2014055499A1] A sheath for a fan airfoil having a leading edge and a trailing edge in a chordwise direction, a tip and a root in a spanwise direction, a suction side and a pressure side includes a solid portion to wrap around the airfoil leading edge; a first wing attached to the suction side of the airfoil; and a second wing attached to the pressure side of the airfoil. At least one of the first wing and the second wing extends at least about 35% of the chord of the airfoil.

IPC 8 full level
F01D 5/30 (2006.01); **F01D 5/14** (2006.01); **F01D 11/08** (2006.01); **F02C 7/00** (2006.01); **F02K 3/00** (2006.01); **F04D 29/32** (2006.01)

CPC (source: EP US)
F01D 5/14 (2013.01 - EP US); **F01D 5/141** (2013.01 - EP US); **F01D 5/145** (2013.01 - EP US); **F01D 5/147** (2013.01 - US);
F04D 29/324 (2013.01 - EP US); **F05D 2220/327** (2013.01 - EP US); **F05D 2220/36** (2013.01 - EP US); **F05D 2240/303** (2013.01 - EP US);
Y02T 50/60 (2013.01 - EP US); **Y10T 29/49336** (2015.01 - EP US)

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2014055499 A1 20140410; EP 2904215 A1 20150812; EP 2904215 A4 20160803; US 2014219808 A1 20140807

DOCDB simple family (application)
US 2013062841 W 20131001; EP 13843675 A 20131001; US 201213632288 A 20121001