

Title (en)
COMPOSITE AIRFOIL WITH INTEGRAL PLATFORM

Title (de)
VERBUNDSTOFFTRAGFLÄCHE MIT INTEGRIERTER PLATTFORM

Title (fr)
SURFACE PORTANTE COMPOSITE À PLATEFORME INTÉGRÉE

Publication
EP 2870065 A4 20160330 (EN)

Application
EP 13840016 A 20130702

Priority
• US 201213540872 A 20120703
• US 2013049070 W 20130702

Abstract (en)
[origin: US2014010662A1] A method of forming an airfoil with an integrated platform includes: a) providing an airfoil core; b) wrapping a first overwrap ply around the airfoil core; c) darting a first end of the first overwrap ply to allow the overwrap ply to extend perpendicular to the airfoil core to form a first platform; d) filling the darted parts filler plies; e) wrapping a second overwrap ply around the first overwrap ply; f) darting a first end of the second overwrap ply to allow the second overwrap ply to extend adjacent to the first overwrap ply to form the first platform; g) filling the darted parts of the second overwrap ply with one or more filler plies; and h) placing a cap ply in the shape of the platform adjacent to at least one of the first and second overwrap plies. An airfoil with an integrated platform is also disclosed.

IPC 8 full level
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CPC (source: EP US)
B29C 70/302 (2021.05 - EP US); **B29D 99/0025** (2013.01 - EP US); **F01D 5/14** (2013.01 - EP US); **F01D 5/147** (2013.01 - EP US); **F01D 5/28** (2013.01 - EP US); **F01D 5/282** (2013.01 - EP US); **B29L 2031/082** (2013.01 - EP US); **Y02T 50/40** (2013.01 - EP US); **Y10T 29/49332** (2015.01 - EP US)

Citation (search report)
• [X] US 2006127217 A1 20060615 - MCMILLAN ALISON J [GB], et al
• [X] EP 2210733 A1 20100728 - ROLLS ROYCE PLC [GB]
• See references of WO 2014046764A2

Designated contracting state (EPC)
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