

Title (en)

AIRPLANE JET ENGINE THRUST REVERSER HAVING GRATINGS OR CASCADES

Title (de)

SCHUBUMKEHRER EINES FLUGZEUGTRIEBWERKS MIT GITTERN ODER KASKADEN

Title (fr)

INVERSEUR DE POUSSÉE À GRILLES OU À CASCADE, POUR UN TURBORÉACTEUR D'AVION

Publication

EP 2572097 A1 20130327 (FR)

Application

EP 11725145 A 20110510

Priority

- FR 1053785 A 20100517
- FR 2011051046 W 20110510

Abstract (en)

[origin: WO2011144837A1] Said thrust reverser, having gratings and intended for an airplane dual flow jet engine nacelle, includes: a front frame (9) holding a plurality of cascades (7); a cowl (13) that is slidably mounted between a direct jet position, in which said cowl covers said cascades (7), and a reverse jet position, in which said cowl uncovers said cascades (7), said cowl (13) including a substantially annular diaphragm (17) that is placed edge-to-edge with said front frame (9) and radially inside said cascades (7) when said cowl (13) is located in a direct jet position; - thrust reversal flaps (31) that are pivotably mounted onto said diaphragm (17) between a direct jet position, in which said flaps enable the flow of cool air downstream from the thrust reverser, and a reverse jet position, in which said flaps direct said cool air (F2) to said cascades (7); and cylinders (19) for actuating said cowl (13) between the direct and reverse jet positions thereof. Said thrust reverser is characterized in that the upstream ends of said cylinders (19) are to intended be mounted onto a stationary portion of said nacelle and in that the downstream ends of said cylinders are mounted onto the upstream edge (27) of said diaphragm (17).

IPC 8 full level

F02K 1/72 (2006.01); **F01D 11/00** (2006.01); **F16J 15/02** (2006.01)

CPC (source: EP US)

F01D 11/005 (2013.01 - EP US); **F02K 1/62** (2013.01 - US); **F02K 1/72** (2013.01 - EP US); **F02K 1/56** (2013.01 - US); **F02K 1/566** (2013.01 - US); **F02K 1/625** (2013.01 - US); **F02K 1/763** (2013.01 - US); **F05D 2240/55** (2013.01 - EP US); **F05D 2250/34** (2013.01 - EP US); **F05D 2250/41** (2013.01 - EP US)

Citation (search report)

See references of WO 2011144837A1

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)

FR 2960029 A1 20111118; **FR 2960029 B1 20120615**; BR 112012027593 A2 20160809; CA 2798484 A1 20111124; CN 102893010 A 20130123; CN 102893010 B 20151202; EP 2572097 A1 20130327; RU 2012153437 A 20140627; RU 2570482 C2 20151210; US 2013075493 A1 20130328; US 9109540 B2 20150818; WO 2011144837 A1 20111124

DOCDB simple family (application)

FR 1053785 A 20100517; BR 112012027593 A 20110510; CA 2798484 A 20110510; CN 201180023775 A 20110510; EP 11725145 A 20110510; FR 2011051046 W 20110510; RU 2012153437 A 20110510; US 201213681210 A 20121119