

Title (en)

GAS TURBINE ENGINE WITH IMPROVED FUEL EFFICIENCY

Title (de)

GASTURBINENMOTOR MIT ERHÖHTER KRAFTSTOFFEFFIZIENZ

Title (fr)

TURBINE À GAZ DOTÉE D'UNE EFFICIENCE ÉNERGÉTIQUE AMÉLIORÉE

Publication

EP 2809936 B1 20190814 (EN)

Application

EP 13775841 A 20130117

Priority

- US 201213361987 A 20120131
- US 2013021831 W 20130117

Abstract (en)

[origin: WO2013154639A2] A turbofan engine includes a fan driven by a low pressure turbine through a gear reduction. The gear reduction has a gear ratio of greater than or equal to about 2.4. The low pressure turbine has an expansion ratio greater than or equal to about 5. The fan has a bypass ratio greater than or equal to about 8. In other features, a turbofan engine includes a variable geometry fan exit guide vane (FEGV) system having a multiple of circumferentially spaced radially extending fan exit guide vanes. Rotation of the fan exit guide vanes between a nominal position and a rotated position selectively changes a fan bypass flow path to permit efficient operation at various flight conditions.

IPC 8 full level

F02K 3/02 (2006.01)

CPC (source: EP)

F01D 17/162 (2013.01); **F04D 29/563** (2013.01); **F05D 2220/36** (2013.01); **F05D 2240/121** (2013.01)

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 2013154639 A2 20131017; WO 2013154639 A3 20140103; EP 2809936 A2 20141210; EP 2809936 A4 20150902; EP 2809936 B1 20190814

DOCDB simple family (application)

US 2013021831 W 20130117; EP 13775841 A 20130117