

Title (en)  
APPARATUS AND METHOD FOR VERTICAL TAKE-OFF AND LANDING AIRCRAFT

Title (de)  
VORRICHTUNG UND VERFAHREN FÜR EIN SENKRECHT STARTENDES UND LANDENDES FLUGZEUG

Title (fr)  
APPAREIL ET PROCÉDÉ POUR LE DÉCOLLAGE ET L'ATERRISSAGE À LA VERTICALE D'UN AVION

Publication  
**EP 2668097 A1 20131204 (EN)**

Application  
**EP 11857137 A 20110124**

Priority  
US 2011022294 W 20110124

Abstract (en)  
[origin: WO2012102698A1] A fixed whig vertical take-off and Sanding (VTOL) aircraft may be used as a personal air vehicle or an unmanned vehicle. The aircraft may have one or more engines mourned sideways in the fuselage such that the axis of rotation of each engine is oriented transverse to the longitudinal axis of the fuselage. Each engine may drive two un-ducted propellers or ducted fans, one on each side of the aircraft, which may be rotatably mounted to a wing or the fuselage.

IPC 8 full level  
**B64C 29/00** (2006.01); **B64C 11/00** (2006.01)

CPC (source: EP)  
**B64C 11/001** (2013.01); **B64C 29/0033** (2013.01)

Cited by  
FR3092822A1; WO2020169497A1

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 2012102698 A1 20120802**; BR 112013018863 A2 20171107; CA 2825188 A1 20120802; EP 2668097 A1 20131204; EP 2668097 A4 20160713

DOCDB simple family (application)  
**US 2011022294 W 20110124**; BR 112013018863 A 20110124; CA 2825188 A 20110124; EP 11857137 A 20110124