

Title (en)

METHOD AND DEVICE FOR ASSISTING IN LANDING AN AIRCRAFT UNDER POOR VISIBILITY CONDITIONS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR UNTERSTÜTZUNG DER LANDUNG EINES FLUGZEUGES BEI SCHLECHTEN SICHTVERHÄLTNISSSEN

Title (fr)

PROCEDE ET DISPOSITIF D'AIDE A L'ATTERRISSAGE D'AERONEF EN CONDITIONS DE VISIBILITE DEGRADEE

Publication

EP 4055343 A1 20220914 (FR)

Application

EP 20797523 A 20201103

Priority

- FR 1912486 A 20191107
- EP 2020080807 W 20201103

Abstract (en)

[origin: WO2021089539A1] The invention relates to a method and a device for assisting in landing an aircraft under poor visibility conditions. The method makes it possible to receive sensor data during an approach phase toward a runway where the runway and/or an approach ramp are not visible to the pilot from the cockpit; then to determine, in the received sensor data, data of interest that are characteristic of the runway and/or of the approach ramp; then to calculate, on the basis of the data of interest, the coordinates of a target zone; and to display, on a head-up display screen, a conformal symbol representative of the target zone, the conformal symbol being displayed before the aircraft reaches the decision height in order to provide the pilot with a visual cue within which to search for the runway and/or the approach ramp.

IPC 8 full level

G01C 21/00 (2006.01); **G01C 23/00** (2006.01); **G06K 9/00** (2022.01); **G06T 11/00** (2006.01); **G06T 17/05** (2011.01)

CPC (source: EP US)

B64D 43/00 (2013.01 - US); **B64D 45/08** (2013.01 - US); **G01C 23/005** (2013.01 - EP US); **G01S 13/867** (2013.01 - US); **G01S 13/89** (2013.01 - US); **G01S 13/934** (2020.01 - US); **G01S 17/86** (2020.01 - US); **G01S 17/89** (2013.01 - US); **G01S 17/933** (2013.01 - US); **G06F 18/24** (2023.01 - EP); **G06T 7/70** (2016.12 - US); **G06T 11/60** (2013.01 - EP); **G06V 10/82** (2022.01 - EP US); **G06V 20/17** (2022.01 - US); **G06V 20/176** (2022.01 - EP US); **G08G 5/0021** (2013.01 - EP); **G08G 5/025** (2013.01 - EP US); **G06T 2207/10044** (2013.01 - US); **G06T 2207/20081** (2013.01 - US); **G06T 2207/20084** (2013.01 - US)

Citation (search report)

See references of WO 2021089539A1

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)

FR 3103050 A1 20210514; **FR 3103050 B1 20211126**; EP 4055343 A1 20220914; US 2022373357 A1 20221124; WO 2021089539 A1 20210514

DOCDB simple family (application)

FR 1912486 A 20191107; EP 2020080807 W 20201103; EP 20797523 A 20201103; US 202017775225 A 20201103