

Title (en)  
SYSTEMS AND METHODS FOR ALERTING DESCENT BELOW ALTITUDE

Title (de)  
SYSTEME UND VERFAHREN ZUR ALARMIERUNG BEI SINKFLUG UNTERHALB EINER HÖHE

Title (fr)  
SYSTÈMES ET PROCÉDÉS PERMETTANT D'ALERter EN CAS DE DESCENTE EN DESSOUS D'UNE ALTITUDE

Publication  
**EP 4152295 A1 20230322 (EN)**

Application  
**EP 22193241 A 20220831**

Priority  
• IN 202111042480 A 20210920  
• US 202217647179 A 20220106

Abstract (en)  
Methods and system for alerting descent with respect to at least one of minimum sector altitude, minimum safe altitude and terrain clearance floor in an aircraft. The methods and systems receive at least one of a minimum sector altitude value, a minimum safe altitude value and a terrain clearance floor value based on a flight plan of the aircraft or a location of the aircraft. A movement trajectory of the aircraft is predicted. The aircraft predicted movement trajectory is evaluated with respect to the at least one of the minimum sector altitude value, the minimum safe altitude value and the terrain clearance floor value. An alert is output when the evaluation predicts convergence of the aircraft predicted movement trajectory and the at least one of the minimum sector altitude value, the minimum safe altitude value and the terrain clearance floor value.

IPC 8 full level  
**G08G 5/00** (2006.01); **G08G 5/02** (2006.01)

CPC (source: EP)  
**G08G 5/0013** (2013.01); **G08G 5/0021** (2013.01); **G08G 5/006** (2013.01); **G08G 5/0086** (2013.01); **G08G 5/025** (2013.01); **G08G 5/045** (2013.01)

Citation (search report)  
• [X1] US 10577123 B1 20200303 - KIRTZ JON E [US], et al  
• [X1] US 2019162555 A1 20190530 - YOUSSEF AHMED [NZ]  
• [X1] US 2018275651 A1 20180927 - PROSSER KEVIN [US]  
• [X1] US 2019130772 A1 20190502 - PINCHON THIBAUT [FR]

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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
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