Title (en)

METHOD OF DETERMINING THE HORIZONTAL PROFILE OF A FLIGHT PLAN COMPLYING WITH A PRESCRIBED VERTICAL FLIGHT PROFILE

Title (de)

VERFAHREN ZUR BESTIMMUNG DES HORIZONTALEN PROFILS EINES FLUGPLANS IN ENTSPRECHUNG MIT EINEM VORGESCHRIEBENEN VERTIKAL-FLUGPROFIL

Title (fr)

PROCEDE DE DETERMINATION DU PROFIL HORIZONTAL D'UN PLAN DE VOL RESPECTANT UN PROFIL DE VOL VERTICAL IMPOSE

Publication

EP 1958176 B1 20090408 (FR)

Application

EP 06819557 A 20061116

Priority

- EP 2006068581 W 20061116
- FR 0512420 A 20051207

Abstract (en)

[origin: WO2007065781A1] The present invention relates to the defining, in a flight plan, of the horizontal profile of an air route with vertical flight and speed profile prescribed on departure and/or on arrival, by means of stringing together of transit points and/or turning points associated with local flight constraints and dubbed 'D-Fix' since they are not catalogued in a published navigation database, like those called "waypoints". It consists in charting, on curvilinear distance maps, a direct curvilinear path (15) joining the departure point (10) to the destination point (20) of the air route while complying with the vertical flight and speed profiles prescribed on departure and/or on arrival and while guaranteeing circumvention of the surrounding reliefs and compliance with regulated overfly zones (3), then in approximating the series of points of the direct curvilinear path (15) by a string of straight segments complying with an arbitrary threshold of maximum deviation with respect to the points of the series (15) and an arbitrary threshold of minimum lateral deviation with respect to the whole set of obstacles to be circumvented (3) and in adopting the points (151 to 154) of the intermediate junctions of the rectilinear segments as 'D-Fix' points.

IPC 8 full level

G08G 5/04 (2006.01)

CPC (source: EP US)

G08G 5/0034 (2013.01 - EP US)

Cited by

CN115116272A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

FR 2894367 A1 20070608; **FR 2894367 B1 20080229**; AT E428161 T1 20090415; DE 602006006213 D1 20090520; EP 1958176 A1 20080820; EP 1958176 B1 20090408; US 2008306680 A1 20081211; US 8090526 B2 20120103; WO 2007065781 A1 20070614

DOCDB simple family (application)

FR 0512420 A 20051207; AT 06819557 T 20061116; DE 602006006213 T 20061116; EP 06819557 A 20061116; EP 2006068581 W 20061116; US 9465606 A 20061116