Title (en)
METHOD FOR DETERMINING THE PATH OF AN UNMANNED AERIAL DEVICE AND OTHER ASSOCIATED METHODS

Title (de)
VERFAHREN ZUR BESTIMMUNG DES WEGS EINER UNBEMANNTEN LUFTVORRICHTUNG UND ANDERE ZUGEHÖRIGE VERFAHREN

Title (fr)
PROCÉDÉ DE DÉTERMINATION DE TRAJET D'UN APPAREIL AÉRIEN NON HABITÉ ET AUTRES PROCÉDÉS ASSOCIÉS

Publication
EP 3994678 A1 20220511 (FR)

Application
EP 20747472 A 20200701

Priority
• FR 1907291 A 20190701
• IB 2020056227 W 20200701

Abstract (en)
[origin: CA3144577A1] A modelling method using digital processing of a three-dimensional environment to establish pathways for unmanned aerial devices which are optimised according to different priorities, the method being characterised in that it comprises the following digital processing steps: (a) providing a three-dimensional model of volumes (PEXi) wherein flight is prohibited, (b) subdividing the model into individual elements (PVk), (c) determining a centre (Pk) for each individual element, (d) establishing and memorising a graph, the nodes (Pk, Ik) of which are formed by at least one portion of the centres, and the branches of which are weighted by the distances between the nodes and by at least one weighting associated with a given priority. A method is also proposed for determining, using an unmanned aerial device, a path between two points in a three-dimensional space modelled by such a graph, and steering methods using such a determination.

IPC 8 full level
G08G 5/00 (2006.01); **G05D 1/10** (2006.01)

CPC (source: CN EP IL KR US)
B64C 39/024 (2013.01 - US); **G05D 1/0204** (2024.01 - US); **G05D 1/104** (2024.01 - CN); **G05D 1/106** (2024.01 - EP IL);
G08G 5/0021 (2013.01 - EP IL KR); **G08G 5/003** (2013.01 - US); **G08G 5/0034** (2013.01 - EP IL KR); **G08G 5/0056** (2013.01 - EP IL KR);
G08G 5/006 (2013.01 - EP IL KR US); **G08G 5/0069** (2013.01 - EP IL KR); **G08G 5/0091** (2013.01 - EP IL KR); B64U 10/13 (2023.01 - CN EP IL);
B64U 2101/00 (2023.01 - US)

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 3098336 A1 20210108; **FR 3098336 B1 20220812**; CA 3144577 A1 20210107; CN 114207545 A 20220318; EP 3994678 A1 20220511;
IL 289500 A 20220201; JP 2022539232 A 20220907; KR 20220027218 A 20220307; US 2022270495 A1 20220825;
WO 2021001768 A1 20210107

DOCDB simple family (application)
FR 1907291 A 20190701; CA 3144577 A 20200701; CN 202080052213 A 20200701; EP 20747472 A 20200701; IB 2020056227 W 20200701;
IL 28950021 A 20211229; JP 2021578220 A 20200701; KR 20227003373 A 20200701; US 202017623693 A 20200701