

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
04 June 2020 (04.06.2020)



(10) International Publication Number
WO 2020/109100 A1

(51) International Patent Classification:
B64C 27/08 (2006.01)

(21) International Application Number:
PCT/EP2019/081888

(22) International Filing Date:
20 November 2019 (20.11.2019)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
18382880.5 30 November 2018 (30.11.2018) EP

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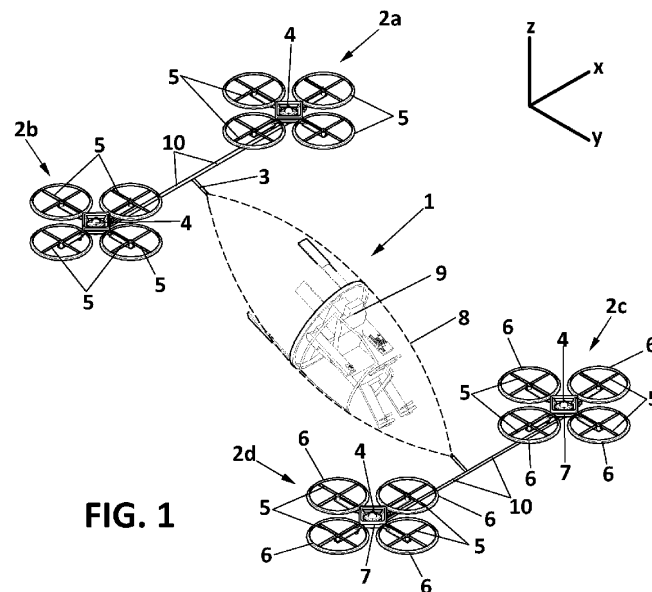
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(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ,

(54) Title: AERIAL VEHICLES WITH UNCOUPLED DEGREES OF FREEDOM



(57) Abstract: An aerial vehicle (1) comprises a main frame (3) and a plurality of operable multicopter units (2a-d). Each multicopter unit has a plurality of propulsion units (5). The propulsion units (5) are attached to the respective multicopter unit (2a-d) at a fixed roll angle, a fixed pitch angle and a fixed yaw angle. The plurality of operable multicopter units (2a-d) are attached to the main frame (3) by interposition of respective joints (4) and rotate relative to the main frame (3) independently to each other. At least one of the joints (4) has a minimum of one degree of freedom, such that the main frame (3) has a at least the same or higher number of controllable degrees of freedom than the total number of degrees of freedom of the main frame (3).

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UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report (Art. 21(3))*