

Title (en)  
HYBRID/ELECTRIC PROPULSION ARCHITECTURE AND METHOD FOR DISSIPATING ELECTRICAL ENERGY IN SUCH AN ARCHITECTURE

Title (de)  
HYBRIDE/ELEKTRISCHE ANTRIEBSARCHITEKTUR UND VERFAHREN ZUR ABLEITUNG ELEKTRISCHER ENERGIE IN EINER SOLCHEN ARCHITEKTUR

Title (fr)  
ARCHITECTURE PROPULSIVE HYBRIDE-ÉLECTRIQUE ET PROCÉDÉ DE DISSIPATION D'ÉNERGIE ÉLECTRIQUE DANS UNE TELLE ARCHITECTURE

Publication  
**EP 3931039 A1 20220105 (FR)**

Application  
**EP 20713945 A 20200224**

Priority  
• FR 1901979 A 20190226  
• FR 2020050343 W 20200224

Abstract (en)  
[origin: WO2020174165A1] Disclosed is a hybrid/electric propulsion architecture (100) for a multi-rotor rotary wing aircraft, comprising: an electricity generator (114) driven by an internal combustion engine (112), and configured to operate in motor mode, a rectifier (116) configured to convert an alternating current delivered by the electricity generator into direct current, an electrical network (120) comprising a high voltage direct current (HVDC) bus, electrical energy storage means (126) connected to the electrical network, during electrical energy regeneration on the HVDC bus, depending on the state of charge of the storage means (126): the storage means are configured to recover electrical energy, the storage means and the rectifier are configured to recover electrical energy, and the electricity generator operating in motor mode is configured to recover electrical energy.

IPC 8 full level  
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CPC (source: EP US)  
**B60L 7/006** (2013.01 - EP); **B60L 7/14** (2013.01 - EP); **B60L 7/20** (2013.01 - EP); **B60L 15/20** (2013.01 - EP); **B60L 50/61** (2019.01 - EP); **B60L 53/24** (2019.01 - US); **B60L 58/10** (2019.01 - US); **B60L 58/12** (2019.01 - EP US); **B64C 29/0016** (2013.01 - EP); **B64D 27/026** (2024.01 - EP); **B64D 27/24** (2013.01 - US); **F03D 9/25** (2016.05 - US); **B60L 2200/10** (2013.01 - EP US); **B64D 27/026** (2024.01 - US); **F05B 2220/706** (2013.01 - US); **Y02E 10/72** (2013.01 - EP); **Y02T 10/62** (2013.01 - EP); **Y02T 10/64** (2013.01 - EP); **Y02T 10/70** (2013.01 - EP); **Y02T 10/7072** (2013.01 - EP); **Y02T 10/72** (2013.01 - EP); **Y02T 50/60** (2013.01 - EP); **Y02T 90/14** (2013.01 - EP)

Citation (search report)  
See references of WO 2020174165A1

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DOCDB simple family (publication)  
**WO 2020174165 A1 20200903**; CA 3131251 A1 20200903; CN 113573942 A 20211029; EP 3931039 A1 20220105; FR 3093080 A1 20200828; FR 3093080 B1 20210305; JP 2022521758 A 20220412; JP 7374203 B2 20231106; US 2022153423 A1 20220519

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