

A B S T R A C T

A METHOD AND A DEVICE FOR MANAGING THE ENERGY OF A HYBRID POWER PLANT OF A MULTI-ROTOR AIRCRAFT

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The present invention relates to a method and to a device (20) for managing energy of a hybrid power plant (10) of a multi-rotor aircraft (1) during a flight. Said hybrid power plant (10) comprises a thermal engine (15),
10 an electricity generator (16), and a plurality of electric motors (17), together with a plurality of electrical energy storage devices (18). Said aircraft (1) has a plurality of rotors (2) driven in rotation by respective electric motors (17). Said flight of said
15 aircraft (1) comprises a takeoff stage, a cruising stage, and a landing stage, said takeoff stage and said landing stage being performed solely while consuming electrical energy. Said method enables an electrification ratio R_{Elec} of said flight to be calculated as a function of the
20 amounts of electrical and thermal energy that are consumed during said takeoff, landing, and cruising stages, thereby limiting the use of said thermal engine (15) to the least possible amount during the cruising stage, and consequently reducing the associated nuisance.

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[No suitable figure]