

AIRCRAFT POWER MANAGEMENT**ABSTRACT OF THE DISCLOSURE**

An electric power management system of a vehicle may interconnect a power plant, a
5 propeller drive unit, and a battery via a bus. A command limiting controller may
direct the operation of the power plant and the propeller drive unit in fast and slow
modes of operation, the fast mode of operation operating at a higher bus voltage than
at a slow mode of operation. The command limiting controller may generate a bus
current to drive the propeller drive unit according to a command limiting, voltage-
10 versus-current curve that adjusts the bus current depending on an amount of voltage
on the power bus; where the command limiting curve includes a minimum voltage
portion, a maximum voltage portion and a control range therebetween having upper
and lower voltage limits and upper and lower current limits for enhanced reliability
and stable control of the propeller drive unit.

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Fig. 5