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INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

(Om Prakash Gupta)
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(57) Abstract :
ABSTRACT A field control-hybrid system (FC-Hybrid system) comprising an ICE (Internal Combustion Engine) unit, a planetary gear unit to effectively split and combine the power derived from IC Engine and Electric Motor, a battery unit, a first EM1 unit (Electrical Machine1) and a second EM2 unit (Electrical Machine2) together operates as a generator and a motor respectively, an over-current protection unit and a converter, and a field control unit or generator control unit to control a speed and an armature current of the EM1 unit set by controlling a current in a field coil of the EM1 unit using a feedback control such as PID controller, wherein a parallel hybrid operation and transmission operation for the ICE unit is achieved in a vehicle configured with the FC-Hybrid system.

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