Title: OVERRUNNING CLUTCH AND METHOD OF CONTROLLING

Abstract: A suspension module (20) with a suspension component (36), wheel hubs (38) coupled to the suspension component, and a drive system. The drive system has a pair of units (44) mat selectively provide drive torque to an associated one of the wheel hubs. Each unit includes a motor (50), a first reduction gearset (52) and an overrunning clutch (54). The first reduction gearset is disposed between the motor and its wheel hub and multiplies torque output from the motor. The clutch disconnects the motor from the associated wheel hub so that an output shaft (66) of the motor is not drivingly coupled to the associated wheel hub when a rotational speed of the first porti does not exceed a rotational speed of the second portion. The clutch can be selectively operated to driveingly couple the motor to its wheel hub to permit the motor to be back-driven. A method for operating a hybrid power train is also provided.
as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(1))

Published:
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the “Guidance Notes on Codes and Abbreviations” appearing at the beginning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report: 24 January 2008
INTERNATIONAL SEARCH REPORT

International application No. PCT/US07/09403

A. CLASSIFICATION OF SUBJECT MATTER

IPC: B62D 6/02 (2006.01), F16H 37/06

USPC: 180/65.1,65.5

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 180/65.1,65.5,292,293,65.6,65.7

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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<td>US 7,214,156 B2 (Oliver) 8 May 2007 (08.05.2007), see entire document</td>
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* Further documents are listed in the continuation of Box C. [ ] See patent family annex.

International application No. PCT/US07/09403

Date of the actual completion of the international search

23 October 2007 (23.10.2007)

Date of mailing of the international search report

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Authorized officer

Christopher Ellis

Telephone No. (571) 272-6699

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US

Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450

Facsimile No. (571) 273-3201

Form PCT/ISA/210 (second sheet) (April 2005)
C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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