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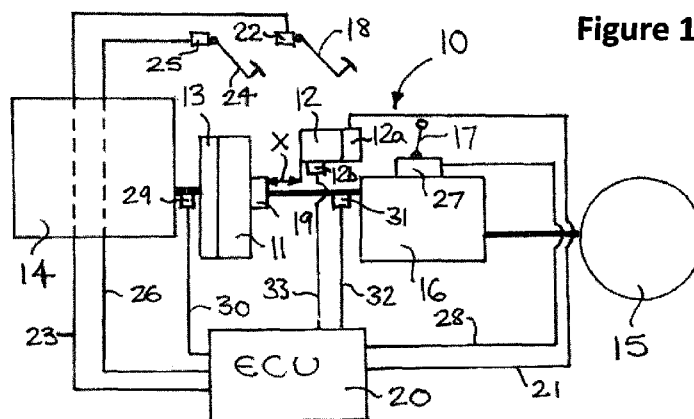


Figure 1

(57) Abstract: A vehicle having a clutch which connects an engine with a driveline which includes a multi-ratio gearbox, the clutch having an actuator which can be operated by a vehicle driver to engage and disengage the clutch, the actuator also having a control system arranged to move the clutch between fully engaged and fully released positions through a range of positions allowing variable levels of clutch slip in order to automatically reduce torsional vibrations in the driveline. The control system is configured to recognise a plurality of predetermined *Vehicle Operation Modes* defined by the combination of a *Clutch Slip Status* criterion as hereinbefore defined with one or more of the hereinbefore defined operating criteria of *Manual Clutch Position Control Input Interface Status*, *Release Bearing Position Status* and *Slip Velocity Demand Status* and, dependent on the recognised *Vehicle Operation Mode*, the control system applies a different clutch control strategy to achieve the required level of clutch slip to damp vibration in the driveline and provide transition between the different *Vehicle Operation Modes* without exciting an uncomfortable level of vibration in the driveline.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 F16D

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)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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X	----- US 2005/222736 A1 (LEE CHUNHAO J [US] ET AL) 6 October 2005 (2005-10-06) claims 1-18	1-32
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Further documents are listed in the continuation of Box C.

See patent family annex.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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