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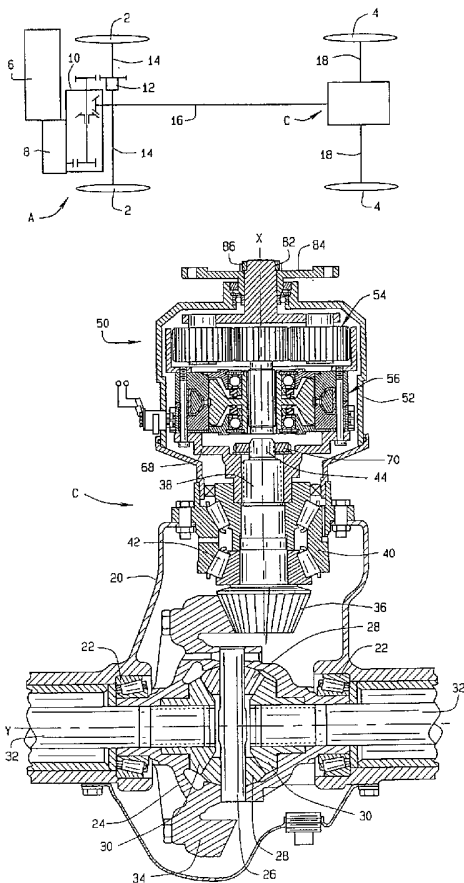
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[Continued on next page]

(54) Title: CENTER WITH ACTIVE TORQUE BIAS CONTROL



(57) Abstract: An axle center (C) for delivering engine torque to two axle shafts (18) which in turn transfer the torque to road wheels (4) includes a torque coupling (50) through which the torque is transferred to the axle shafts. The coupling includes a magnetic particle clutch (56) and a planetary set (54) organized about a common axis (X) and coupled together such that two paths - a mechanical path and a clutch path - exist in the coupling for transferring torque through it, with the amount of torque transferred being dependent solely on the current in the magnetic particle clutch. A single torque coupling may be located where torque is delivered to the axle center or two torque couplings may be located at and connected to the two axle shafts, one for each shaft.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F16H3/72 B60K23/08

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)

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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 practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 866 624 A (NISHIKAWA SEIICHI ET AL) 12 September 1989 (1989-09-12)	1-5, 8-10
Y	abstract; figure 1 column 4, line 58 - line 65 column 8, line 6 - line 23 column 9, line 59 - line 66 ---	6, 7, 11-13
Y	US 6 327 935 B1 (JOSLIN MARK T ET AL) 11 December 2001 (2001-12-11) abstract; figures 1, 2 ---	6, 7, 11-13
A	DE 198 15 881 A (DANA CORP) 14 October 1999 (1999-10-14) abstract; figures --- -/--	1, 6, 7, 11-13



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- *&* document member of the same patent family

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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