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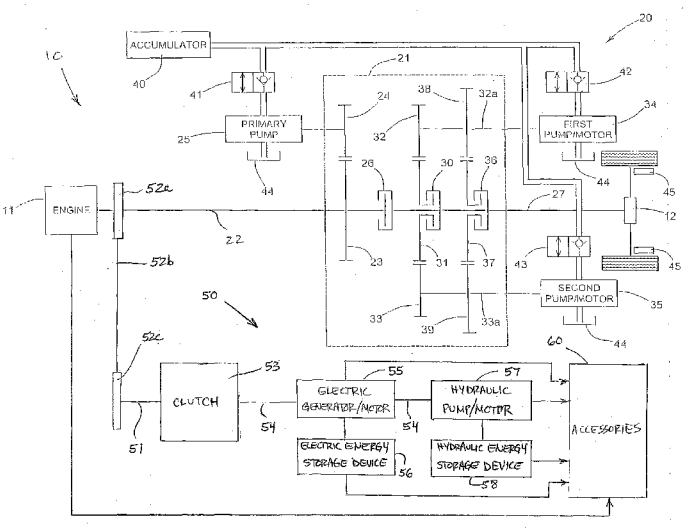
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(54) Title: ELECTRO-HYDRAULIC MACHINE FOR HYBRI DRIVE SYSTEM



(57) Abstract: A combined hybrid drive system and electro-hydraulic machine includes a hybrid drive system that is adapted to decelerate a rotatably driven mechanism, accumulate the energy resulting from such deceleration, and use the accumulated energy to subsequently accelerate the rotatably driven mechanism. An electro- hydraulic machine is operatively connected to the hybrid drive system and is adapted to be operated in one or more of a plurality of modes to improve the performance of the hybrid drive system.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2009/031750

A. CLASSIFICATION OF SUBJECT MATTER

B60K 6/12(2006.01)i, B60K 6/08(2006.01)i, B60K 17/04(2006.01)i

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)

IPC 8 B60K 6/04, 6/06, 6/08, 6/12, 17/04

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

Korean Utility models and applications for Utility Models since 1975
Japanese Utility models and applications for Utility Models since 1975

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

eKIPASS (KIPO Internal) & keywords : "hybrid", "accelerate", "decelerate", "electric", and "hydraulic"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1097831 B1 (GENERAL MOTORS CORPORATION) 4 July 2004 See clams 1-3 and Figure 1.	1-16
A	WO 2006-055978 A1 (DANA CORPORATION) 26 May 2006 See page 6, line 19 - page 7, line 12 and Figures 1, 7, 8.	1-16
A	US 6752225 B2 (TOYOTA JIDOSHA KABUSHIKI KAISHA) 22 June 2004 See column 4, line 54 - column 5, line 11 and Figure 1.	1-16
A	JP 2004-278713 A (TOYOTA JIDOSHA KABUSHIKI KAISHA) 7 October 2004 See pagragraphs [0024] - [0031] and Figures 1, 2.	1-16

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
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"P" document published prior to the international filing date but later than the priority date claimed
"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
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents,such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
18 AUGUST 2009 (18.08.2009)	**18 AUGUST 2009 (18.08.2009)**

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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		KR 10-0576591 B1	04.05.2006
		US 2004-0220015 A1	04.11.2004