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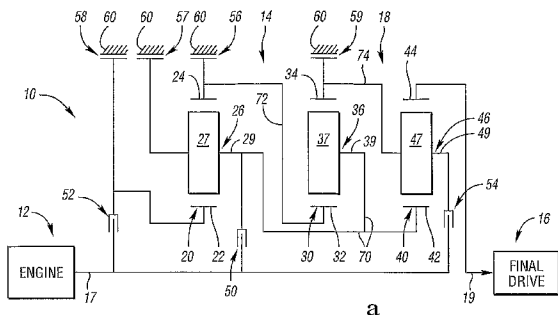
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[Continued on next page]

(54) Title: PLANETARY TRANSMISSIONS HAVING THREE INTERCONNECTING MEMBERS AND CLUTCHED INPUT MEMBERS



	RATIOS	30	52	54	56	57	58	59
REVERSE	-2.25	X						X
NEUTRAL	0.00							X
1	5.38		X					X
2	2.35		X			X		
3	1.74	X					X	
3'	1.66		X		X			
4	1.23			X			X	
5	1.00	X		X				
6	0.85			X	X			
7	0.69			X		X		
8	0.51	X			X			

(X = ENGAGED CLUTCH)

RING GEAR TOOTH RATIO: $\frac{N_{R1}}{N_{S1}} = 2.25$, $\frac{N_{R2}}{N_{S2}} = 1.51$, $\frac{N_{R3}}{N_{S3}} = 2.25$

RATIO SPREAD	10.55
RATIO STEPS	
REV/1	-0.42
1/2	2.29
2/3	1.35
3/4	1.41
4/5	1.23
5/6	1.18
6/7	1.23
7/8	1.35

(57) Abstract: The family of transmissions has a plurality of members that can be utilized in powertrains to provide at least eight forward speed ratios and one reverse speed ration. The transmission family members include three planetary gear sets having seven torque-transmitting mechanisms and three interconnecting members. The powertrain includes an engine that is selectively connectable to at least one of the planetary gear members and an output member that is continuously connected with another one of the planetary gear members. The seven torque-transmitting mechanism provide interconnections between various gear member, the input shaft and the transmission housing, and are operated in combinations of two to establish at least eight forward speed ratios and at least one reverse speed ratio.

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RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/45118

A. CLASSIFICATION OF SUBJECT MATTER

IPC: **F16H 3/44(2006.01)**

USPC: 475/296

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. : 475/296, 295, 277, 278, 279, 280, 282, 284, 286, 288, 290, 330

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3,971,268 A (MURAKAMI et al) 27 July 1976 (27.07/1976) see entire document.	1, 2, 4, 7-17, 19-20
X,P	US 2005/0043134 A1 (TAHATA et al) 24 February 2005 (24.02.2005) see entire document.	1, 3, 5-16, 18-20
A	US 2003/0083173 A1 (MIYAZAKI et al) 01 May 2003 (01.05.2003) see entire document.	1-20
A,P	US 6,960,149 B2 (ZIEMER) 01 November 2005 (01.11.2005) see entire document.	1-20
A	US 3,956,946 A (MURAKAMI et al) 18 May 1976 (18.05.1976) see entire document	1-20



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	"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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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US05/45118

Continuation of B. FIELDS SEARCHED Item 3:

EAST; US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; (transmission and clutch and brake and ((eight or eighth) with (speed or ratio or gear)) and ((three or third) with (planetary adj gear)) and (seven\$2 with mechanism) and (third adj connecting adj member) and (combination with two)).clm.