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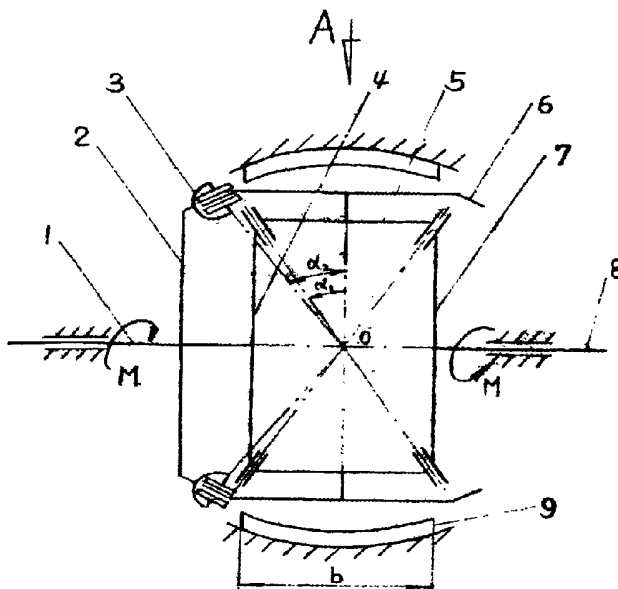
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[Continued on next page]

(54) Title: LOAD-ADAPTING PLANET GEAR WITH INTEGRATED MOTOR



(57) Abstract: The transmission is composed of an input shaft (1), a power return disk (2), a power return magnet (3), an input gear (4), a planet gear (5), a rotor (6), an output gear (7), an output shaft (8) and a stator (9). A rotation of the input shaft (1) and the input gear connected to engine raise a rotation and a revolution of the planet gear and the rotor mounted on it. The revolution affects to the magnetic field of the stator and that raises the reaction force to the revolution. In other hand, the planet unit (planet gear and rotor) as a rotation mass inertial body has a gyroscope moment and it also react to the revolution of the planet unit. Thus the power of engine transfers smoothly to load. Therefore, the transmission is non-control, continuously variable transmission adapting to load by gear drive.



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/KP 2004/000001

A. CLASSIFICATION OF SUBJECT MATTER

IPC⁷: F16H 3/72, F16H 1/40, F16H 37/08, B60K 6/04, H02K 7/116

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)
IPC⁷: F16H, B60K, H02K

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)
EPODOC, PAJ, WPI

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO2002/042658 A2 (THE TIMKEN COMPANY) 30 May 2002 (30.05.2002)	1
X	page 2, line 12-14, page 6, line 14-30. page 13, line 8 to page 3, line 3.	2, 3, 6, 7, 9

P,X	US 2003/0176955 A1 (NISSAN MOTOR) 18 September 2003 (18.09.2003)	1
P,A	[0002], [0029], [0035], [0050], [0056], [0057]. [0002], [0029], [0035], [0050], [0056], [0057].	2

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

☒ See patent family annex.

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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

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"&" document member of the same patent family

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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
US	A	20030176 955		none	
WO	A	20020426 58		none	