

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2007/012553

A. CLASSIFICATION OF SUBJECT MATTER
INV. B60R16/02 F16L33/02 H02G3/32

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)
B60R F16L H02G

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DE 199 39 081 C1 (RAYMOND A & CIE [FR]) 26 October 2000 (2000-10-26) the whole document	1-3, 6-11, 13-17, 19,20
Y	DE 20 2005 008570 U1 (TRW AUTOMOTIVE ELECTRON & COMP [DE]) 8 September 2005 (2005-09-08) the whole document	1-3, 6-11, 13-17, 19,20
A	EP 0 069 223 A (RAYMOND A FA [DE]) 12 January 1983 (1983-01-12) the whole document	1,2,6,7, 9,10,14, 15,17,20
	----- -/--	

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
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *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

4 February 2008

Date of mailing of the international search report

12/02/2008

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Van der Veen, Frits

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2007/012553

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 053 458 A (MEYER CHARLES [US]) 25 April 2000 (2000-04-25) cited in the application the whole document -----	1-20

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/US2007/012553

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 19939081	C1	26-10-2000	AT 270410 T 15-07-2004
			WO 0113020 A1 22-02-2001
			EP 1210539 A1 05-06-2002
			JP 2003507677 T 25-02-2003
DE 202005008570	U1	08-09-2005	CN 1877938 A 13-12-2006
			CN 1877939 A 13-12-2006
			CN 1877940 A 13-12-2006
			CN 1877941 A 13-12-2006
			EP 1729386 A2 06-12-2006
			EP 1732189 A2 13-12-2006
			EP 1729387 A2 06-12-2006
			EP 1729388 A2 06-12-2006
			US 2006273226 A1 07-12-2006
			EP 0069223
ES 266698 Y 01-08-1983			
FR 2508986 A1 07-01-1983			
JP 1037632 B 08-08-1989			
JP 1558900 C 16-05-1990			
JP 58008886 A 19-01-1983			
US 4478381 A 23-10-1984			
US 6053458	A	25-04-2000	BR 9805410 A 14-12-1999
			CA 2255513 A1 08-07-1999
			US 5984242 A 16-11-1999
			US 6315250 B1 13-11-2001