

INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2018/072660

A. CLASSIFICATION OF SUBJECT MATTER		
<i>B60T 13/66</i> (2006.01)i; <i>B60T 13/74</i> (2006.01)i; <i>B61H 1/00</i> (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) B60T; B61H; F16D		
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) EPO-Internal, WPI Data		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DE 102009042965 A1 (SIEMENS AKTIENGESELLSCHAFT, 80333 MÜNCHEN, DE) 24 March 2011 (2011-03-24) figure 1 and paragraph [0001]	1-9
Y	US 6669308 B1 (AURICH STEFAN [DE] ET AL) 30 December 2003 (2003-12-30) column 1, column 4, lines 34-36, column 6, last 3 lines, column 10, lines 1-4, column 12, figures 1 and 2	1
Y	US 2005127749 A1 (HARTMANN HENRY [DE] ET AL) 16 June 2005 (2005-06-16) paragraphs [6], [7], [68] and [73]	1-9
A	EP 2388172 A1 (SIEMENS AG [DE]) 23 November 2011 (2011-11-23) the whole document	1-9
A	CA 2588165 A1 (MAI SERGE [CA]) 07 November 2008 (2008-11-07) the whole document	1-9
A	EP 0958980 A2 (SAB WABCO SPA [IT]) 24 November 1999 (1999-11-24) the whole document	1-9
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> 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 "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 14 November 2018		Date of mailing of the international search report 22 November 2018
Name and mailing address of the ISA/EP European Patent Office p.b. 5818, Patentlaan 2, 2280 HV Rijswijk Netherlands Telephone No. (+31-70)340-2040 Facsimile No. (+31-70)340-3016		Authorized officer Ranieri, Sebastiano Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2018/072660

C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 20314847 U1 (STRIEWSKI HOBBY WOHNWAGEN [DE]) 18 December 2003 (2003-12-18) the whole document	1-9
A	DE 102014014838 A1 (AUDI AG [DE]) 07 April 2016 (2016-04-07) the whole document	1-9
A	DE 102009051019 A1 (KNORR BREMSE SYSTEME [DE]) 05 May 2011 (2011-05-05) the whole document	1-9

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/EP2018/072660

Patent document cited in search report			Publication date (day/month/year)	Patent family member(s)			Publication date (day/month/year)
DE	102009042965	A1	24 March 2011	AU	2010297446	A1	05 April 2012
				BR	112012006506	A2	26 April 2016
				CN	102548817	A	04 July 2012
				DE	102009042965	A1	24 March 2011
				EP	2480437	A2	01 August 2012
				RU	2012116072	A	27 October 2013
				US	2012192757	A1	02 August 2012
				WO	2011036003	A2	31 March 2011
US	6669308	B1	30 December 2003	AT	374138	T	15 October 2007
				AU	764556	B2	21 August 2003
				CA	2347772	A1	04 May 2000
				CN	1332678	A	23 January 2002
				EP	1123234	A2	16 August 2001
				ES	2292258	T3	01 March 2008
				HU	0103977	A2	28 February 2002
				JP	2002528329	A	03 September 2002
				PL	348733	A1	03 June 2002
				PT	1123234	E	14 November 2007
				US	6669308	B1	30 December 2003
				US	2004046442	A1	11 March 2004
				WO	0024625	A2	04 May 2000
US	2005127749	A1	16 June 2005	NONE			
EP	2388172	A1	23 November 2011	CN	102267449	A	07 December 2011
				EP	2388172	A1	23 November 2011
CA	2588165	A1	07 November 2008	CA	2588165	A1	07 November 2008
				EP	2164742	A1	24 March 2010
				US	2010282122	A1	11 November 2010
				WO	2008134860	A1	13 November 2008
EP	0958980	A2	24 November 1999	AT	347508	T	15 December 2006
				DE	69934273	T2	24 May 2007
				EP	0958980	A2	24 November 1999
				ES	2278421	T3	01 August 2007
				IT	TO980421	A1	19 November 1999
				US	6250723	B1	26 June 2001
DE	20314847	U1	18 December 2003	DE	20314847	U1	18 December 2003
				EP	1519466	A2	30 March 2005
				SI	1519466	T1	28 February 2014
DE	102014014838	A1	07 April 2016	NONE			
DE	102009051019	A1	05 May 2011	CN	102596670	A	18 July 2012
				DE	102009051019	A1	05 May 2011
				EP	2493739	A1	05 September 2012
				ES	2552807	T3	02 December 2015
				WO	2011050950	A1	05 May 2011