



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:

EP 15 83 18 82

Classification of the application (IPC):

B62D 57/00, B62D 61/00, G05D 1/00, A63H 30/04, A63H 33/00

Technical fields searched (IPC):

B60B, A63H

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	CN 201220111 Y (HONGGANG XIA [CN]) 15 April 2009 (2009-04-15) * claims 1-3; figures 1,2 *	1, 2, 6-15
X	GB 189703727 A (HOMEISTER JOACHIM HEINRICH [DE]) 15 January 1898 (1898-01-15) * claims 1-4; figures 1-7 *	1, 2, 6-15
X	JP 2002126373 A (TODA IZUMI) 08 May 2002 (2002-05-08) * abstract; figures 1-4 *	1, 2, 6-15
X	GB 2319756 A (LEVON LEIF [SE]) 03 June 1998 (1998-06-03) * page 3; figure 7 *	1, 2, 6-15
A	EP 0371149 A1 (POSCH STEFAN JUN) 06 June 1990 (1990-06-06) * column 6, line 47 - line 58; figure 3a *	1
A	US 2011294397 A1 (TSAI LIN WEI [TW]) 01 December 2011 (2011-12-01) * paragraph [0023] - paragraph [0025]; figures 1-8 *	13-15

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search Munich	Date of completion of the search 19 February 2018	Examiner Shmonin, Vladimir
---------------------------	--	-------------------------------

CATEGORY OF CITED DOCUMENTS

- | | |
|---|--|
| X: particularly relevant if taken alone | P: intermediate document |
| Y: particularly relevant if combined with another document of the same category | T: theory or principle underlying the invention |
| A: technological background | E: earlier patent document, but published on, or after the filing date |
| O: non-written disclosure | D: document cited in the application |
| &: member of the same patent family, corresponding document | L: document cited for other reasons |

Disclaimer: this document has been automatically generated using data structured in accordance with WIPO standard ST.36 from the database of search reports of the European Patent Office. For technical reasons, its content and layout may differ from that of the original publication. Only the original published information is legally binding.



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 15 83 18 82

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 2, 6-15

features related to an external accessory (such as a bearing, housing structure, etc)

2. claims: 3-5

an internal structure, biasing sub-assembly, portal axles with biasing springs, collision dampening means

None of the further search fees have been paid within the fixed time limit. The present (supplementary) European search report has been drawn up for those parts of the European patent application which relate to the first mentioned in the claims, namely claims: 2, 6-15(completely); 1(partially)

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search	Date of completion of the search	Examiner
Munich	19 February 2018	Shmonin, Vladimir

CATEGORY OF CITED DOCUMENTS

- | | |
|---|--|
| X: particularly relevant if taken alone | P: intermediate document |
| Y: particularly relevant if combined with another document of the same category | T: theory or principle underlying the invention |
| A: technological background | E: earlier patent document, but published on, or after the filing date |
| O: non-written disclosure | D: document cited in the application |
| | L: document cited for other reasons |
| & : member of the same patent family, corresponding document | |

Disclaimer: this document has been automatically generated using data structured in accordance with WIPO standard ST.36 from the database of search reports of the European Patent Office. For technical reasons, its content and layout may differ from that of the original publication. Only the original published information is legally binding.



ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:

EP 15 83 18 82

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 19-02-2018
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
CN 201220111	Y	15-04-2009	NONE		
GB 189703727	A	15-01-1898	NONE		
JP 2002126373	A	08-05-2002	NONE		
GB 2319756	A	03-06-1998	NONE		
EP 0371149	A1	06-06-1990	AU	614452 B2	29-08-1991
			BR	8907178 A	05-03-1991
			EP	0371149 A1	06-06-1990
			JP	H03502299 A	30-05-1991
			WO	9005570 A1	31-05-1990
US 2011294397	A1	01-12-2011	NONE		

For more details about this annex: see Official Journal of the European Patent Office, No. 12/82

Disclaimer: this document has been automatically generated using data structured in accordance with WIPO standard ST.36 from the database of search reports of the European Patent Office. For technical reasons, its content and layout may differ from that of the original publication. Only the original published information is legally binding.