

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AT2018/060226

| A. CLASSIFICATION OF SUBJECT MATTER <i>B60L 11/18</i> (2006.01)i According to International Patent Classification (IPC) or to both national classification and IPC | | |
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| B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) B60L 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. |
| X | CN 205706219 U (SHANGHAI INT AUTOMOBILE CITY CO LTD) 23 November 2016 (2016-11-23) | 1-5,8,9,13,19,20 |
| Y | the whole document | 16,17 |
| X | DE 102009001080 A1 (BOSCH GMBH ROBERT [DE]) 26 August 2010 (2010-08-26) | 1,2,4-8,10,13,18-20 |
| Y | paragraph [0001] - paragraph [0011] paragraph [0026] - paragraph [0040]; figure 1 | 16,17 |
| X | US 2017225578 A1 (PARYANI ANIL [US] ET AL) 10 August 2017 (2017-08-10) | 1,4-7,13,19,20 |
| Y | paragraph [0002] - paragraph [0039] | 16,17 |
| A | paragraph [0050] - paragraph [0064]; figures 7A, 7B, 8, 9, 10,11 | 2,3,8,9 |
| X | DE 102010028126 A1 (BFU AG [DE]) 27 October 2011 (2011-10-27) | 1-5,8,10-13,15,19,20 |
| Y | paragraph [0001] - paragraph [0035] paragraph [0044] - paragraph [0057]; figures 1-3 | 16,17 |
| X | US 2014333261 A1 (OH HYUNGAN SEAN [KR] ET AL) 13 November 2014 (2014-11-13) | 1,10,13,14,18-20 |
| | paragraph [0002] - paragraph [0011] paragraph [0026] - paragraph [0044]; figures 1, 2, 5A, 5B paragraph [0045] - paragraph [0046]; figures 6A-6D | |
| <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 27 November 2018 | | Date of mailing of the international search report 06 December 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 Utz, Tilman Telephone No. |

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| Y A | WO 2016119000 A1 (FLECHL CHRISTIAN [AT]) 04 August 2016 (2016-08-04) page 1, line 3 - page 17, line 15 page 20, line 7 - page 22, line 21; figures 6, 7, 8 page 22, line 23 - page 28, line 3; figures 9-12 | 16,17 1,4-7,9,10,13-15,18-20 |

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

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| Patent document cited in search report | Publication date (day/month/year) | Patent family member(s) | Publication date (day/month/year) |
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| WO 2016119000 A1 | 04 August 2016 | AT 516728 A4 CN 107249925 A EP 3251192 A1 WO 2016119000 A1 | 15 August 2016 13 October 2017 06 December 2017 04 August 2016 |