

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2019/045803

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|--|---|---|
| A. CLASSIFICATION OF SUBJECT MATTER | | |
| B60C 1/00(2006.01)i; C08L 7/00(2006.01)i; C08L 15/00(2006.01)i; C08K 3/04(2006.01)i; C08K 3/36(2006.01)i FI: C08L7/00; C08L15/00; C08K3/04; C08K3/36; B60C1/00 A 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) B60C1/00; C08L7/00; C08L15/00; C08K3/04; C08K3/36 | | |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched | | |
| Published examined utility model applications of Japan | 1922-1996 | |
| Published unexamined utility model applications of Japan | 1971-2020 | |
| Registered utility model specifications of Japan | 1996-2020 | |
| Published registered utility model applications of Japan | 1994-2020 | |
| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) | | |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | |
| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| A | JP 63-278947 A (SUMITOMO CHEMICAL INDUSTRY COMPANY LIMITED) 16.11.1988 (1988-11-16) | 1-7 |
| A | DE 102015210421 A1 (CONTINENTAL REIFEN DEUTSCHLAND GMBH) 08.12.2016 (2016-12-08) | 1-7 |
| A | WO 2018/131694 A1 (THE YOKOHAMA RUBBER CO., LTD.) 19.07.2018 (2018-07-19) | 1-7 |
| A | JP 2014-173060 A (SUMITOMO RUBBER INDUSTRIES, LTD.) 22.09.2014 (2014-09-22) | 1-7 |
| A | JP 2006-104372 A (BRIDGESTONE CORPORATION) 20.04.2006 (2006-04-20) | 1-7 |
| <input 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 23 January 2020 (23.01.2020) | | Date of mailing of the international search report 04 February 2020 (04.02.2020) |
| Name and mailing address of the ISA/ Japan Patent Office 3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan | | Authorized officer Telephone No. |

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
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| Patent Documents referred in the Report | Publication Date | Patent Family | Publication Date |
|---|------------------|--------------------|------------------|
| JP 63-278947 A | 16 Nov. 1988 | US 4885338 A | |
| | | EP 290883 A1 | |
| | | DE 3864895 A | |
| | | CA 1303264 A | |
| DE 102015210421 A1 | 08 Dec. 2016 | EP 3103655 A1 | |
| WO 2018/131694 A1 | 19 Jul. 2018 | CN 110168008 A | |
| JP 2014-173060 A | 22 Sep. 2014 | US 2014/0275331 A1 | |
| | | DE 102014102492 A | |
| JP 2006-104372 A | 20 Apr. 2006 | (Family: none) | |