

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2018/010292

## A. CLASSIFICATION OF SUBJECT MATTER

*C08L 23/16(2006.01)i, C08L 83/00(2006.01)i, C08J 3/24(2006.01)i, C08J 3/28(2006.01)i, C08K 9/06(2006.01)i, C08K 3/22(2006.01)i, C08K 5/00(2006.01)i, B29B 9/12(2006.01)i, B29B 9/10(2006.01)i, H01B 13/14(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)

C08L 23/16; C08K 3/00; C08K 5/16; C08L 23/00; C08L 31/04; C08L 83/00; H01B 3/28; H01B 3/44; C08J 3/24; C08J 3/28; C08K 9/06; C08K 3/22; C08K 5/00; B29B 9/12; B29B 9/10; H01B 13/14

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Korean Utility models and applications for Utility models: IPC as above  
Japanese Utility models and applications for Utility models: IPC as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS (KIPO internal) & Keywords: irradiation crosslinking composition, cable, EPDM, polyolefine, silicon rubber, flame retardant, crosslinking booster, auxiliary crosslinking agent, antioxidant, lubricant, mixing, extrusion

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|-----------|--|-----------------------|
| Y         | JP 2016-533623 A (JIANGSU DASHENG POLYMER CO., LTD.) 27 October 2016<br>See claims 1, 4.   | 1-9                   |
| Y         | KR 10-1496967 B1 (KYUNGSHIN CABLE) 18 March 2015<br>See abstract; paragraphs [0034], [0041], [0049], [0057], [0067], [0068], [0076], [0077], [0107], [0108]; and claims 1, 13. | 1-9                   |
| A         | KR 10-2017-0005294 A (KYUNGSHIN CABLE) 12 January 2017<br>See the entire document.   | 1-9                   |
| A         | KR 10-2017-0041824 A (NEXANS) 17 April 2017<br>See the entire document.  | 1-9                   |
| A         | KR 10-2005-0116053 A (LS CABLE & SYSTEM LTD.) 09 December 2005<br>See the entire document.   | 1-9                   |



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 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

06 DECEMBER 2018 (06.12.2018)

Date of mailing of the international search report

07 DECEMBER 2018 (07.12.2018)

Name and mailing address of the ISA/KR

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**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.

**PCT/KR2018/010292**

| Patent document cited in search report | Publication date | Patent family member | Publication date |
|--|------------------|----------------------|------------------|
| JP 2016-533623 A                       | 27/10/2016       | CN 103524896 A       | 22/01/2014       |
|  |                  | CN 103524896 B       | 25/05/2016       |
|  |                  | EP 3053956 A1        | 10/08/2016       |
|  |                  | EP 3053956 A4        | 02/08/2017       |
|  |                  | EP 3053956 B1        | 24/10/2018       |
|  |                  | JP 6074548 B2        | 01/02/2017       |
|  |                  | US 2016-0217883 A1   | 28/07/2016       |
|  |                  | US 9536638 B2        | 03/01/2017       |
|  |                  | WO 2015-043121 A1    | 02/04/2015       |
|  |                  | KR 10-1496967 B1     | 18/03/2015       |
| KR 10-2017-0005294 A                   | 12/01/2017       | KR 10-1723677 B1     | 07/04/2017       |
| KR 10-2017-0041824 A                   | 17/04/2017       | CN 107004462 A       | 01/08/2017       |
|  |                  | EP 3178093 A1        | 14/06/2017       |
|  |                  | FR 3024797 A1        | 12/02/2016       |
|  |                  | FR 3024797 B1        | 29/07/2016       |
|  |                  | WO 2016-020583 A1    | 11/02/2016       |
| KR 10-2005-0116053 A                   | 09/12/2005       | KR 10-0635586 B1     | 18/10/2006       |