

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2016/014649

## A. CLASSIFICATION OF SUBJECT MATTER

*B65D 1/20(2006.01)i, B65D 1/06(2006.01)i, B65D 1/26(2006.01)i, B65D 81/38(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)

B65D 1/20; B65D 47/20; B67D 3/04; B65D 53/00; B65D 47/06; B65D 25/00; A47G 19/22; B65D 1/06; B65D 1/26; B65D 81/38

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) &amp; Keywords: injection hole, bottom surface, valve, cover part, wing part, elastic part

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 10-1498251 B1 (JRP CORPORATION) 09 March 2015 See abstract, paragraphs [0053]-[0070] and figures 1-4.	1-8
A	KR 10-1577386 B1 (NEX_IN TECHNOLOGIES CO., LTD.) 14 December 2015 See abstract, paragraphs [0014]-[0022] and figure 1.	1-8
A	KR 10-1243382 B1 (MUN, Ha Gyu) 21 March 2013 See abstract, paragraphs [0037]-[0064] and figures 1-3.	1-8
A	KR 20-0473800 Y1 (KIM, Jin Won et al.) 31 July 2014 See abstract, paragraphs [0016]-[0025] and figures 1, 2.	1-8
A	KR 10-2004-0108795 A (SIG TECHNOLOGY LTD.) 24 December 2005 See abstract, claim 1 and figures 1-3.	1-8



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

"&amp;" document member of the same patent family

Date of the actual completion of the international search

25 APRIL 2017 (25.04.2017)

Date of mailing of the international search report

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Name and mailing address of the ISA/KR

Korean Intellectual Property Office  
Government Complex-Daejeon, 189 Seonsa-ro, Daejeon 302-701,  
Republic of Korea

Facsimile No. +82-42-481-8578

Authorized officer

Telephone No.

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

International application No.

**PCT/KR2016/014649**

Patent document cited in search report	Publication date	Patent family member	Publication date
KR 10-1498251 B1	09/03/2015	AU 2014-400753 A1 CN 105555676 A KR 10-2015-0135994 A WO 2016-006771 A1	14/01/2016 04/05/2016 04/12/2015 14/01/2016
KR 10-1577386 B1	14/12/2015	NONE	
KR 10-1243382 B1	21/03/2013	NONE	
KR 20-0473800 Y1	31/07/2014	KR 10-2014-0001983 U	04/04/2014
KR 10-2004-0108795 A	24/12/2004	AU 2003-223818 A1 CA 2485477 A1 CN 1652980 A EP 1507714 A2 EP 1507714 B1 TW 200400146 A TW 1289530 B US 2005-0173470 A1 US 6966469 B2 WO 03-097474 A3	02/12/2003 27/11/2003 10/08/2005 23/02/2005 08/08/2007 01/01/2004 11/11/2007 11/08/2005 22/11/2005 27/11/2003