



(43) International Publication Date
26 October 2012 (26.10.2012)

- (51) International Patent Classification:
B60R 21/233 (2006.01) *B60R 21/23* (2006.01)
- (21) International Application Number:
PCT/KR2012/002204
- (22) International Filing Date:
27 March 2012 (27.03.2012)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
10-2011-0036137 19 April 2011 (19.04.2011) KR
- (71) Applicant (for all designated States except US):
AUTOLIV DEVELOPMENT AB [SE/SE]; Wallentins-
vagen 22, S-447 83 Vargarda (SE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): KIM, Jin Kuk
[KR/KR]; 311-1903 Jugong 3cha Apt., Musil-dong, Won-
ju-si, Gangwon-do 220-150 (KR). LEE, Sun Young
[KR/KR]; 107-904 BooYoung Apt., Donghwa-ri, Mun-
mak-eup, Wonju-si, Gangwon-do 220-801 (KR).
- (74) Agent: WELL-L&K PATENT FIRM; 1F Shinwon
Bldg., 648-15, Yeoksam-dong, Kangnam-gu, Seoul 135-
911 (KR).
- (81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KZ,
LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG,
MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM,
PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE,
SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT,
TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

- (84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ,
UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU,
TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE,
DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU,
LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK,
SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

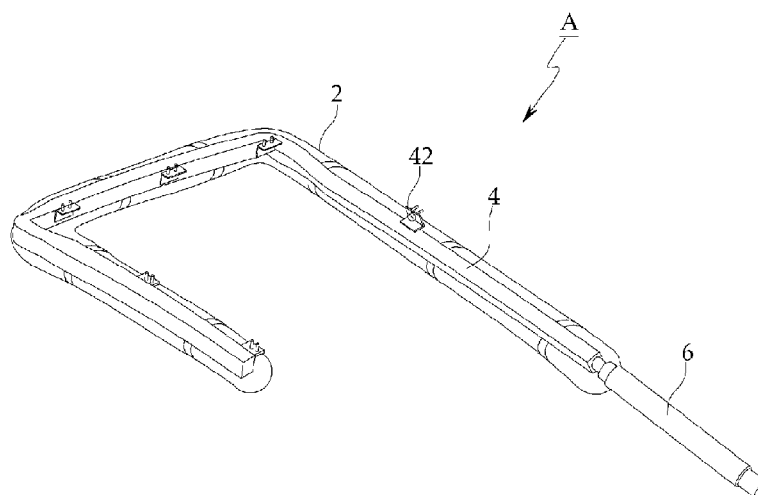
Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))

- (88) Date of publication of the international search report:
10 January 2013

(54) Title: UNIFICATION AIRBAG MODULE

[Fig. 1]



(57) Abstract: Disclosed is a unification airbag module. The unification airbag module includes a cushion to protect a front and a side of an occupant, a fixing member mounted on a ceiling of a vehicle and formed therein with a cavity such that the cushion is rolled and received in the cavity, and an inflator supplying inflation gas to the cushion. The cushion includes a front portion corresponding to a head and a chest of the occupant, and a side portion corresponding to both sides of the head and the chest of the occupant. A main chamber is formed on edges of the front and side portions, and a plurality of sub-chambers communicating with the main chamber are formed at the front portion and the side portion. The occupant is completely surrounded by the unification airbag module so that the occupant is protected from the front collision and the side collision.



INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2012/002204**A. CLASSIFICATION OF SUBJECT MATTER*****B60R 21/233(2006.01)i, B60R 21/23(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)

B60R 21/233; B60R 22/16; B60R 21/20; B60R 21/22; B60R 21/18; B60R 21/16; B60R 21/24

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

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: airbag, module, unification and integrated

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	JP 2008-284904 A (TAKATA CORP) 27 November 2008 See paragraphs [0019] - [0039] and figures 1-14.	1 2-4
A	KR 10-1998-0022887 A (WANG, KI NAM) 06 July 1998 See pages 2-3 and figures 1-7.	1-4
A	KR 10-1996-0000639 A (DAEWOO MOTOR COMPANY) 25 January 1996 See pages 1-2 and figures 1-3.	1-4
A	JP 07-329688 A (HONDA MOTOR CO., LTD.) 19 December 1995 See paragraphs [0011] - [0029] and figures 1-7.	1-4



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 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

31 OCTOBER 2012 (31.10.2012)

Date of mailing of the international search report

01 NOVEMBER 2012 (01.11.2012)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
189 Cheongsa-ro, Seo-gu, Daejeon Metropolitan
City, 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

TAK, Hyeong Yeop

Telephone No. 82-42-481-8421



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2012/002204Patent document
cited in search reportPublication
datePatent family
member(s)Publication
date

JP 2008-284904 A

27.11.2008

None

KR 10-1998-0022887 A

06.07.1998

None

KR 10-1996-0000639 A

25.01.1996

None

JP 07-329688 A

19.12.1995

JP 3456754 B2
US 05575497A A14.10.2003
19.11.1996