



(11) **EP 2 522 238 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
28.11.2012 Bulletin 2012/48

(51) Int Cl.:
A42B 3/32 (2006.01) A42B 3/22 (2006.01)

(43) Date of publication A2:
14.11.2012 Bulletin 2012/46

(21) Application number: **11192523.6**

(22) Date of filing: **08.12.2011**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA ME

(71) Applicant: **Hjc Corp.**
Yongin-si, Gyeonggi-do 449-836 (KR)

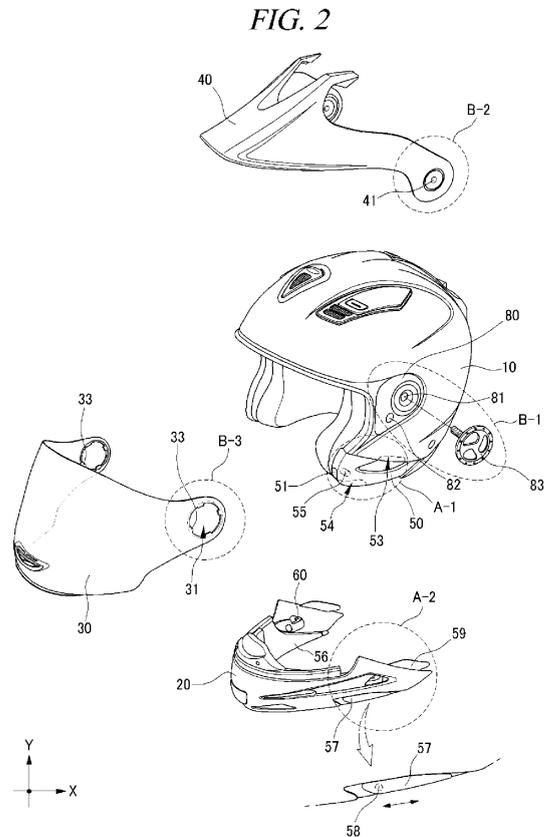
(72) Inventor: **Kim, Tae Young**
449-836 Gyeonggi-do (KR)

(30) Priority: **09.05.2011 US 201113103328**

(74) Representative: **Franks, Barry Gerard**
BRANN AB
P.O. Box 12246
102 26 Stockholm (SE)

(54) **Multifunctional helmet**

(57) There is provided a helmet including: a main body (10) that includes a facial opening at its front side; a chin guard (20) connected to a lower side surface of the main body; and a connector (A) capable of connecting/disconnecting the chin guard to/from the main body, wherein the connector includes first connectors (A-1) that are positioned at both ends of the lower side surface of the main body and include locking protrusions (55) capable of coupling and fixing a part of the chin guard and second connectors (A-2) that are positioned at both ends of the chin guard and include coupling loops (60) to be caught by the locking protrusions so as to be coupled and fixed.



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EUROPEAN SEARCH REPORT

Application Number
EP 11 19 2523

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2010/132095 A1 (GAFFORIO LUCA [IT] ET AL) 3 June 2010 (2010-06-03) * paragraphs [0021] - [0027]; figures 3,4 *	1-3,13	INV. A42B3/32 A42B3/22
X	EP 0 479 406 A2 (SHOEI KAKO KK [JP]) 8 April 1992 (1992-04-08) * column 3, lines 3-27 * * column 4, lines 22-55 *	13	
A	----- * column 3, lines 3-27 * * column 4, lines 22-55 *	5	
X	EP 1 803 361 A1 (HJC CO LTD [KR]) 4 July 2007 (2007-07-04) * paragraphs [0016] - [0025]; figures 4-7 *	1,13	
A	----- * paragraphs [0016] - [0025]; figures 4-7 *	5	
X	EP 2 083 646 A1 (GI VI S R L [IT]) 5 August 2009 (2009-08-05) * page 3, line 6 - page 4, line 22; figures 1,3,4 *	1,13	
X	DE 31 43 796 A1 (BERNER REINHARD [DE]) 11 May 1983 (1983-05-11) * pages 6,7; figure 1 *	1,13	TECHNICAL FIELDS SEARCHED (IPC)
A	US 4 744 107 A (FOEHL ARTUR [DE]) 17 May 1988 (1988-05-17) * column 3, lines 3-25; claim 1; figure 1 *	5,13	A42B
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		23 October 2012	D'Souza, Jennifer
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

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EPO FORM 1503 03.82 (P/04C01)

ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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23-10-2012

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2010132095 A1	03-06-2010	AU 2009208066 A1	17-06-2010
		EP 2191738 A2	02-06-2010
		ES 2389174 T3	23-10-2012
		IT MI20080394 U1	29-05-2010
		JP 2010126871 A	10-06-2010
		US 2010132095 A1	03-06-2010
EP 0479406 A2	08-04-1992	CA 2039995 A1	04-04-1992
		DE 69117242 D1	28-03-1996
		DE 69117242 T2	04-07-1996
		EP 0479406 A2	08-04-1992
		JP 1907363 C	24-02-1995
		JP 4146205 A	20-05-1992
		JP 6035684 B	11-05-1994
		US 5093937 A	10-03-1992
EP 1803361 A1	04-07-2007	CN 1977729 A	13-06-2007
		EP 1803361 A1	04-07-2007
		US 2007124852 A1	07-06-2007
EP 2083646 A1	05-08-2009	AT 539635 T	15-01-2012
		EP 2083646 A1	05-08-2009
		ES 2377580 T3	29-03-2012
		WO 2008055688 A1	15-05-2008
DE 3143796 A1	11-05-1983	NONE	
US 4744107 A	17-05-1988	DE 3409786 A1	10-10-1985
		FR 2561079 A1	20-09-1985
		IT 1185066 B	04-11-1987
		JP 1821496 C	10-02-1994
		JP 5029686 B	06-05-1993
		JP 61000604 A	06-01-1986
		US 4744107 A	17-05-1988