



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
01.08.2012 Bulletin 2012/31

(51) Int Cl.:
H04H 20/59 (2008.01) H04H 20/10 (2008.01)

(43) Date of publication A2:
06.06.2012 Bulletin 2012/23

(21) Application number: **12157064.2**

(22) Date of filing: **15.12.2010**

(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

(30) Priority: **21.12.2009 KR 20090127733**
21.12.2009 KR 20090127734

(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC:
10195172.1 / 2 357 746

(71) Applicant: **Electronics and Telecommunications Research Institute**
Daejeon 305-700 (KR)

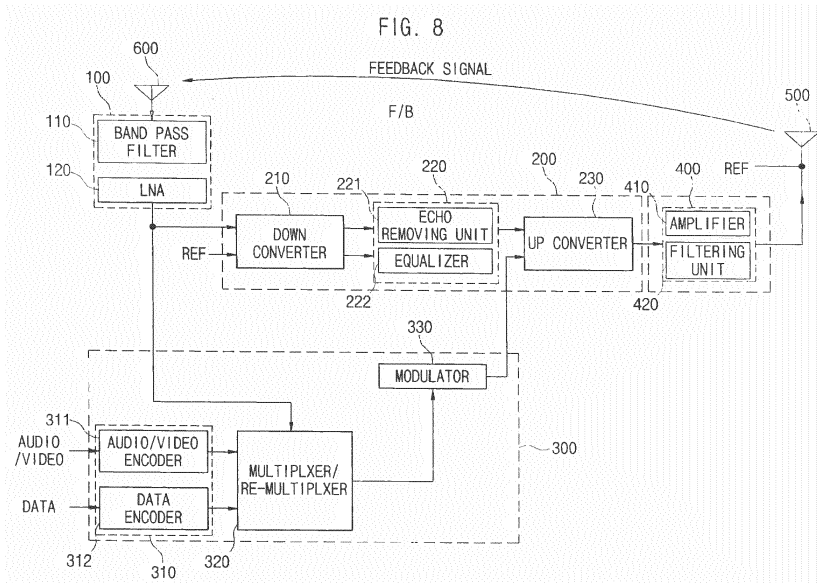
(72) Inventors:
• **Kim, Geon**
Daejeon (KR)
• **Park, So Ra**
Daejeon (KR)
• **Lee, Yong Hoon**
Daejeon (KR)
• **Lee, Yong Tae**
Daejeon (KR)
• **Kim, Jin Min**
Seoul (KR)
• **Baek, Myung Sun**
Seoul (KR)

(74) Representative: **Betten & Resch**
Theatinerstrasse 8
80333 München (DE)

(54) **Apparatus and method for transmitting service contents and emergency broadcasting apparatus**

(57) An emergency broadcasting apparatus comprises a co-channel repeater that removes multi-path signals or a Doppler effect from received broadcasting signals

and an emergency broadcasting unit performing at least one of decoding, multiplexing, and modulating input audio, video, and data emergency broadcasting signals according to a broadcasting standard.





EUROPEAN SEARCH REPORT

Application Number
EP 12 15 7064

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	WO 2006/035242 A2 (RADIOSCAPE LTD [GB]; BANHAM DOMINIC THOMAS PARFREY [GB]; SABEL LES [GB] 6 April 2006 (2006-04-06) * the whole document *	1-6	INV. H04H20/59 H04H20/10
X	EP 1 816 764 A2 (TOSHIBA KK [JP]) 8 August 2007 (2007-08-08) * the whole document *	1,6	
X	US 2008/209466 A1 (ISHIDA TAKAHARU [JP] ET AL) 28 August 2008 (2008-08-28) * paragraph [0027] - paragraph [0031] *	1	
Y	US 6 408 038 B1 (TAKEUCHI ISAO [JP]) 18 June 2002 (2002-06-18) * sentence 56, paragraph 4 - sentence 65 * * column 8, line 30 - column 9, line 41 *	2-6	
Y	JP 2000 278236 A (KENWOOD CORP) 6 October 2000 (2000-10-06) * abstract *	2-6	
			TECHNICAL FIELDS SEARCHED (IPC)
			H04H
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 21 June 2012	Examiner Vaquero, Raquel
CATEGORY OF CITED DOCUMENTS 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 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			

1
EPO FORM 1503 03.82 (P04C01)

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

EP 12 15 7064

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
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

21-06-2012

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2006035242 A2	06-04-2006	EP 1800424 A2	27-06-2007
		KR 20070083859 A	24-08-2007
		WO 2006035242 A2	06-04-2006

EP 1816764 A2	08-08-2007	CA 2559443 A1	07-08-2007
		CN 101018096 A	15-08-2007
		EP 1816764 A2	08-08-2007
		JP 2007243906 A	20-09-2007
		US 2007182585 A1	09-08-2007

US 2008209466 A1	28-08-2008	EP 1995968 A2	26-11-2008
		JP 2008205979 A	04-09-2008
		US 2008209466 A1	28-08-2008

US 6408038 B1	18-06-2002	EP 0938203 A1	25-08-1999
		JP 10313286 A	24-11-1998
		KR 20000023640 A	25-04-2000
		US 6408038 B1	18-06-2002
		WO 9852313 A1	19-11-1998

JP 2000278236 A	06-10-2000	NONE	
