

A. CLASSIFICATION OF SUBJECT MATTER***H04W 64/00(2009.01)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)

H04W 64/00; H04B 1/38; H04L 12/28; H04Q 7/38

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
Japanese utility models and applications for utility models
(Chinese Patents and application for patent)

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

eKOMPASS(KIPO internal) & Keywords: location, mobile device, building, base station, height

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2008-0026770 A1 (Pavan K. Rudravaram et al.) 31 January 2008 See abstract; paragraph [0030] - paragraph [0059]; figures 2,6,7	1-28
A	US 6999780 B1 (Wei Zhao) 14 February 2006 See abstract; column 5, line 9 - column 8, line 21; figures 3,4	1-28
A	EP 1569490 A1 (AVAYA TECHNOLOGY CORP.) 31 August 2005 See abstract; paragraph [0015] - paragraph [0037]; figure 6	1-28
A	US 2003-0216142 A1 (K. TORBJORN WIGREN) 20 November 2003 See abstract; paragraph [0015], [0016], [0082], [0083]; figure 11	1-28

 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

17 MAY 2010 (17.05.2010)

Date of mailing of the international search report

18 MAY 2010 (18.05.2010)

Name and mailing address of the ISA/KR

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2009/060853

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2008-0026770 A1	31.01.2008	US 7616965 B2	10.11.2009
		WO 2008-016781 A2	07.02.2008
		WO 2008-016781 A3	11.12.2008
US 6999780 B1	14.02.2006	US 2006-194588 A1	31.08.2006
		US 7640025 B2	29.12.2009
EP 1569490 A1	31.08.2005	AT 353532 T	15.02.2007
		CA 2496598 C	19.01.2010
		CA 2496598-A1	11.08.2005
		DE 602005000533 D1	22.03.2007
		DE 602005000533 T2	31.05.2007
		EP 1569490 B1	07.02.2007
		JP 2005-229617 A	25.08.2005
		KR20060041702A	12.05.2006
		US 2005-176406 A1	11.08.2005
		US 7272394 B2	18.09.2007
		US 2003-0216142 A1	20.11.2003
EP 1506686 A1	16.02.2005		
PL 373426A1	22.08.2005		
US 7203499 B2	10.04.2007		
WO 03-098957 A1	27.11.2003		