Abstract: A cellular communication system in which overload of a base station is averted by offering users the option to communicate using a spectrum outside of the spectrum allocated for cellular communication. Incentives are offered to connect to the base station using the alternative spectrum, which may not support communications at the same rate as could be supported using the spectrum allocated to the base station for cellular communications. Users may be selected to receive an offer to receive incentives based on range to the base station, with users closer to the base station being more likely to receive such an offer. The cellular communications system may be a 3G wireless system and the alternative spectrum may be white space in the digital TV spectrum.
(88) Date of publication of the international search report:
12 January 2012
A. CLASSIFICATION OF SUBJECT MATTER

H04B 7/26(2006.01)i, H04W 16/10(2009.01)i, H04W 88/10(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)
H04B 7/26; H04B 7/00; H04B 1/18

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: Digital TV, TV White Space, trigger condition, bandwidth, licenced channel;

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
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<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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<tr>
<td>A</td>
<td>KR 10-2009-0021865 A (SAMSUNG ELECTRONICS CO., LTD. ET AL.) 4 March 2009 See abstract, claims 1-20 and figures 4-5.</td>
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<td>A</td>
<td>US 2010-0048234 AI (SINGH RAJENDRA) 25 February 2010 See abstract, figures 3-5 and paragraphs [0040]-[0049].</td>
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<td>A</td>
<td>NICT, “Enabling Procedure of Communication in TVWS under FCC rules&quot;. IEEE 802.11. TGen, IEEE 802.11-10/0261/1, 2009.02.28. See all documents.</td>
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See patent family annex.

Further documents are listed in the continuation of Box C.

Date of the actual completion of the international search
22 NOVEMBER 2011 (22.11.2011)

Date of mailing of the international search report
22 NOVEMBER 2011 (22.11.2011)

Name and mailing address of the ISA/KR
Korean Intellectual Property Office
Government Complex-Daejeon, 189 Cheongsa-ro,
Seo-gu, Daejeon 302-701, Republic of Korea
Facsimile No. 82-42-472-7140

Authorized officer
SEONG, KYOUNG A
Telephone No. 82-42-481-8171

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<td>WO 2010-021781 A1</td>
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