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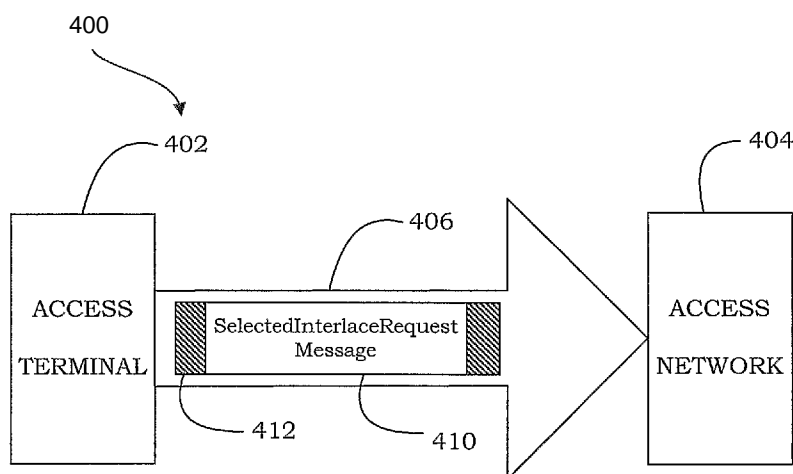
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(54) Title: A METHOD AND APPARATUS FOR REQUESTING SELECTED INTERLACE MODE IN WIRELESS COMMUNICATION SYSTEMS



(57) Abstract: A method and apparatus for requesting selected interlace mode with a particular sector is provided, comprising generating a SelectedInterlaceRequest message comprising an 8 bit MessageID field, a 12 bit PilotPN field wherein the PilotPN field indicates a value of PilotPN of the sector to which the message is directed and a 4 bit InterlacesRequested field wherein the InterlacesRequested field indicates a value of requested number of interlaces and transmitting the SelectedInterlaceRequest message over a communication link. A method and apparatus for receiving and processing the SelectedInterlaceRequest message is further provided.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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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)
H04Q H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>US 2005/031047 A1 (MALTSEV ALEXANDER A [RU] ET AL) 10 February 2005 (2005-02-10)</p> <p>abstract</p> <p>figures 1-3</p> <p>paragraph [0012]</p> <p>paragraph [0026]</p> <p>paragraph [0031]</p> <p>paragraph [0034]</p> <p>paragraph [0040] - paragraph [0042]</p> <p>paragraph [0073]</p> <p>paragraph [0085] - paragraph [0086]</p> <p style="text-align: center;">-----</p> <p style="text-align: center;">- / -</p>	1-9



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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	WO 2005/041515 A (QUALCOMM INC [US]; VIJAYAN RAJIV [US]; WALKER KENT G [US]; KRISHNAMOOR) 6 May 2005 (2005-05-06) abstract paragraph [0003] - paragraph [0005] paragraph [0007] paragraph [0032] - paragraph [0042] figures 1-5, 9a, 10b -----	1-9
P, X	TOMCIK JIM: "C802.20-05/69: QFDD and QTDD: Proposed Draft Air Interface Specification" IEEE 802.20 CONTRIBUTION TO SESSION #17 (14.11-17.11.2005), [Online] 28 October 2005 (2005-10-28), pages 1-6/43, XP002428557 Retrieved from the Internet: URL :http://ieee802.org/20/Contributions.html [retrieved on 2007-04-10] pages 6-43, paragraph 6.4.6.3 -----	1-9

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2005031047	A1	10-02-2005	EP 1652317 A1 03-05-2006
			WO 2005015770 A1 17-02-2005
<hr/>			
WO 2005041515	A	06-05-2005	AU 2004307449 A1 06-05-2005
			BR PI0415840 A 02-01-2007
			CA 2543771 A1 06-05-2005
			EP 1678906 A1 12-07-2006
			KR 20060086439 A 31-07-2006
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