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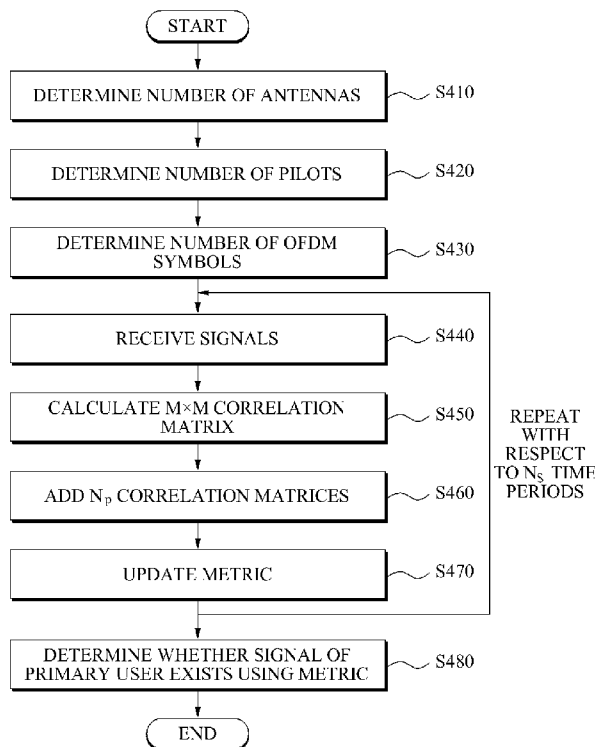
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[Continued on next page]

(54) Title: COGNITIVE RADIO COMMUNICATION SYSTEM RECOGNIZING INTERFERENCE BASED ON KNOWN SIGNAL



(57) Abstract: A cognitive radio (CR) communication apparatus and method is provided. A cognitive radio (CR) communication apparatus includes a signal receiving unit which receives signals from a primary user of a primary system and a secondary transmitter of a secondary system, the received signals including an element associated with at least one known signal of the secondary transmitter, and a determination unit which determines whether a signal of the primary user exists from among the received signals based on the element associated with the at least one known signal.

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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.
X	US 2008086286 A1 (SHELLHAMMER, S.; et.al.) 10 April 2008 (10.04.2008) abstract; paragraph [0008].	1 - 19
A	WO 2008043936 A2 (FRANCE TELECOM) 17 April 2008 (17.04.2008) the whole document.	1 - 19
A	US 2007100922 A1 (ASHISH P.) 03 May 2007 (03.05.2007) the whole document.	1 - 19
A	CABRIC et al. 'Implementation issues in spectrum sensing for cognitive radios' In: IEEE Signals, Systems and Computers, 2004. Conference Record of the Thirty- Eighth Asilomar Conference on Pacific Grove, Ca, USA Nov. 7-10, 2004, p. 722 - 776 the whole document.	1 - 19
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
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			EP	A2	2077057	2009-07-08
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