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(54) **Title:** DEVICE AND METHOD FOR PERFORMING A DEVICE-TO-DEVICE BROADCAST COMMUNICATION IN A WIRELESS NETWORK

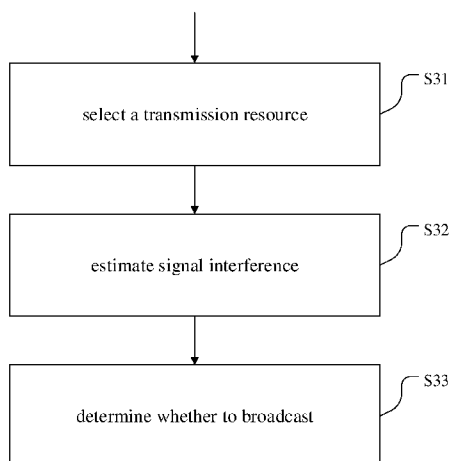


Fig. 3a

(57) **Abstract:** The present invention provides a device and method for performing a device-to-device broadcast communication in a wireless communication network, wherein the method comprises steps of: selecting a transmission resource; estimating signal interference of broadcasting on the transmission resource based on signal intensity of other user equipments that simultaneously transmit signals on the transmission resource or on a frequency resource orthogonal to the transmission resource; based on the estimated signal interference, determining whether to perform a device-to-device broadcast communication on the selected transmission resource. Compared with the prior art, the present invention needs no much extra overhead, effectively reduces signal interference between user equipments that transmit simultaneously, and thereby achieves a better system performance.



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)
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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 practicable, search terms used)

EPO-Internal, COMPENDEX, INSPEC, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2010/240312 A1 (PENG TAO [CN] ET AL) 23 September 2010 (2010-09-23) paragraph [0004] - paragraph [0007] paragraph [0015] - paragraph [0046] -----	1-14
X	US 2011/151887 A1 (HAKOLA SAMI-JUKKA [FI] ET AL) 23 June 2011 (2011-06-23) paragraph [0006] - paragraph [0012] paragraph [0023] - paragraph [0074] -----	1-14
X	EP 2 665 297 A1 (ERICSSON TELEFON AB L M [SE]) 20 November 2013 (2013-11-20) paragraph [0019] - paragraph [0081] paragraph [0127] - paragraph [0155] -----	1-14
X	WO 2013/028044 A2 (LG ELECTRONICS INC [KR]; LIM DONGGUK [KR]; CHO HANGYU [KR]; PARK KYUJI) 28 February 2013 (2013-02-28) the whole document -/--	1-14



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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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