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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

[Continued on next page]

(54) Title: METHODS AND APPARATUS FOR RECEIVE POWER UNIFICATION FOR MIMO AND NON-MIMO SIGNALING

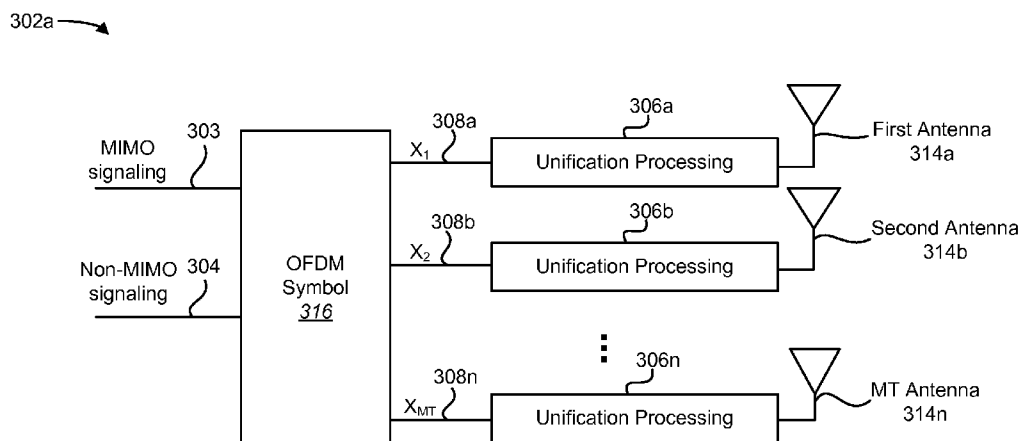


FIG. 3

(57) Abstract: A method for receive power unification for multiple-input and multiple-output (MIMO) and non-MIMO signaling is described. A data stream may be separated into multiple individual data streams for transmission by multiple transmit antennas. Orthogonal frequency division multiplexing (OFDM) may be applied to the individual data streams to obtain one or more OFDM symbols. Unification processing may be applied to an OFDM symbol. Individual data streams may be transmitted using multiple transmit antennas.

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B. FIELDS SEARCHED

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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 practical, search terms used)

EPO-Internal, WPI Data, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2007/070928 A1 (SUTIVONG ARAK [TH] ET AL) 29 March 2007 (2007-03-29)	1,4-9, 11-13, 16-21, 23-26
Y	abstract	
	paragraph [0010]	
A	paragraph [0040]	2,10,14, 22 3,15

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☒ Further documents are listed in the continuation of Box C.

X See patent family annex.

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A document defining the general state of the art which is not considered to be of particular relevance

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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

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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	AGERE SYSTEMS: "Open Loop Transmit Diversity for Downlink Channels with 4 Transmit Antennas in E-UTRA" 3GPP DRAFT; R1-070015 (OL TXD FOR DL CHANNELS WITH 4 TX ANTS), 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, no. Sorrento, Italy; 20070115, 9 January 2007 (2007-01-09), XP050104082 Section 2.3	2,10,14, 22
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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US 2005163236	A1	28-07-2005	EP 1719314 A1 08-11-2006 JP 2007520161 T 19-07-2007 KR 20060131819 A 20-12-2006 WO 2005074221 A1 11-08-2005