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[Continued on next page]

(54) Title: METHOD, APPARATUS AND COMPUTER READABLE MEDIUM PROVIDING POWER ALLOCATION FOR BEAMFORMING WITH MINIMUM BLER IN AN MIMO-OFDM SYSTEM

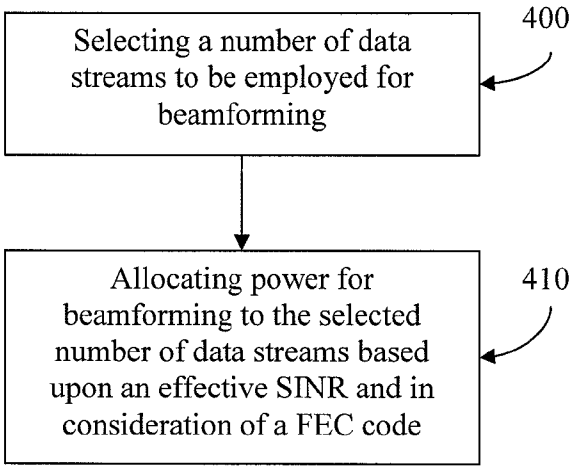

FIG. 4

(57) Abstract: A method for allocating power for beamforming is described. The method includes selecting a number of data streams to be employed. Power for beamforming is allocated to the selected number of data streams based upon the effective SINR and in consideration of a FEC code. The allocation of power may be based upon maximizing the effective SINR. Additionally, the method may include determining an effective SINR using an EESM procedure. An apparatus, computer readable medium and system are also described.

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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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2006/107230 A (INTEL CORP [US]; KHORYAEV ALEXEY VLADIMIROVICH [RU]; MALTSEV ALEXANDER) 12 October 2006 (2006-10-12)	1-3, 7-20, 23-25
A	abstract page 3, line 1 - page 4, line 32 page 11, line 14 - page 12, line 16; figure 3	4-6,21, 22
	-/--	

[X] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

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International application No
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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.
X	LIANG ZHOU ET AL: "A Unified Approach for Weighted Viterbi Decoding in MIMO-OFDM Precoding Systems" VEHICULAR TECHNOLOGY CONFERENCE, 2007. VTC2007-SPRING. IEEE 65TH, IEEE, PI, 1 April 2007 (2007-04-01), pages 2078-2082, XP031092996 ISBN: 978-1-4244-0266-3	1-3, 7-20, 23-25
A	the whole document	4-6,21, 22

A	LAGUNAS M A ET AL: "On Power Allocation Strategies for Maximum Signal to Noise and Interference Ratio in an OFDM-MIMO System" IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, IEEE SERVICE CENTER, PISCATAWAY, NJ, US, vol. 3, no. 3, 1 May 2004 (2004-05-01), pages 808-820, XP011112469 ISSN: 1536-1276 cited in the application abstract pages 809-812	1-25

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
WO 2006107230 A	12-10-2006	NONE	