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(71) Applicant (for all designated States except US): **CISCO TECHNOLOGY, INC.** [US/US]; 170 West Tasman Drive, San Jose, CA 95134-1706 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **WANG, Genyuan** [CN/US]; 3501 Spring Mountain Drive, Plano, TX 75025 (US). **JIN, Hang** [US/US]; 3708 Stoneway Drive, Plano, TX 75025 (US). **LOU, Hanqing** [CN/US]; 2705 Lookout

Drive, #6103, Garland, TX 75044 (US). **HEDAYAT, Ahmadreza** [IR/US]; 1009 Bel Air Drive, Allen, TX 75013 (US).

(74) Agents: **FLOAM, Andrew, D.** et al.; Edell, Shapiro & Finnan, LLC, 1901 Research Blvd Suite 400, Rockville, MD 20850-3164 (US).

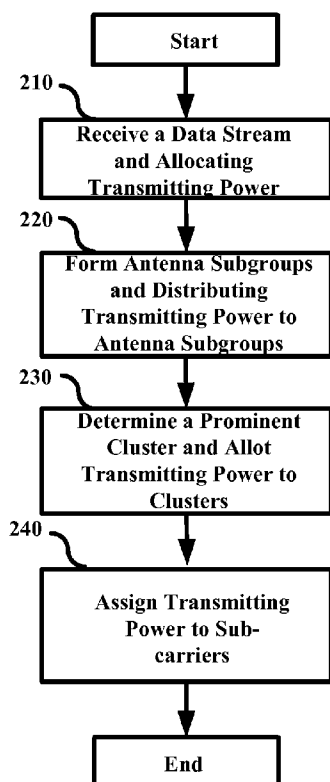
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(54) Title: METHOD AND SYSTEM FOR ACHIEVING SPATIAL DIVERSITY OF A WIRELESS COMMUNICATIONS NETWORK

Figure 2



(57) Abstract: A method and system are provided for achieving spatial diversity of a wireless communications network. The method comprises arranging antennas on a transmitting wireless station into a plurality of antenna subgroups, wherein each of the antenna subgroups forms a virtual antenna, creating a plurality of beamformed MIMO channels using the plurality of virtual antennas, wherein each of the beamformed MIMO channel comprises a plurality of sub-carriers and corresponds to a virtual antenna, dividing sub-carriers in each of the plurality of beamformed MIMO channels into at least a first and second cluster, distributing a first amount of transmitting power to the first cluster and a second amount of transmitting power to the second cluster, wherein the first amount of transmitting power is larger than the second amount of transmitting power.



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European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
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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 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.
A	US 6 795 424 B1 (KAPOOR SAMIR [US] ET AL) 21 September 2004 (2004-09-21) claims 1-10,15 column 4, lines 62-67 column 5, line 1 column 6, lines 59-61 column 19, lines 42-67 column 20, lines 1-4 figures 1a,1b,1c,5,7,8	1-16
A	US 2006/109923 A1 (CAI SEAN [US] ET AL) 25 May 2006 (2006-05-25) claims 1-3 paragraphs [0019] - [0023], [0025], [0028], [0035] figures 1,2A,2B,2C,5,6 -/--	1-16

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

☒ See patent family annex.

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Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

van der Pol, Edwin

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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.
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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