

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
27 September 2007 (27.09.2007)

PCT

(10) International Publication Number
WO 2007/109634 A1

(51) International Patent Classification:
H04B 7/08 (2006.01) **H04L 5/02** (2006.01)

(21) International Application Number:
PCT/US2007/064334

(22) International Filing Date: 19 March 2007 (19.03.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/784,838 20 March 2006 (20.03.2006) US
60/785,687 24 March 2006 (24.03.2006) US

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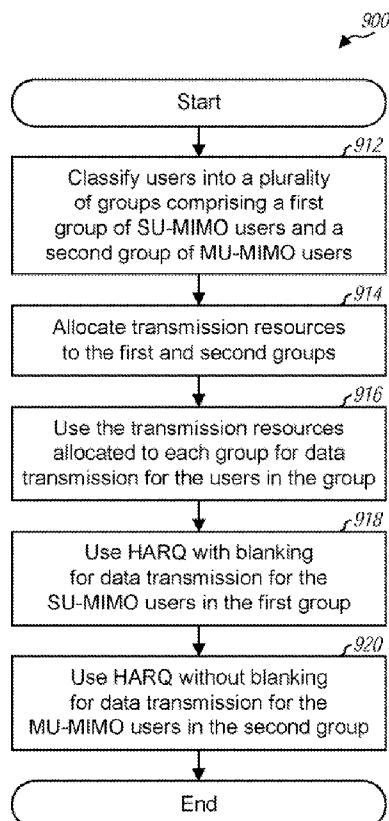
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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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(54) Title: RESOURCE ALLOCATION TO SUPPORT SINGLE-USER AND MULTI-USER MIMO TRANSMISSIONS



(57) Abstract: Techniques for supporting MIMO transmission are described. Users are classified into a first group of users to be scheduled individually for MIMO transmission and a second group of users that can be scheduled together for MIMO transmission. Transmission resources are allocated to the first and second groups, e.g., based upon various criteria such as the number of users in each group, data requirements of the users, total loading for each group, etc. The transmission resources may be hybrid automatic retransmission (HARQ) interlaces, frequency channels, time frequency resources, etc. The resource allocation may be semi-static. The transmission resources allocated to each group are used for data transmission on the downlink and/or uplink for the users in the group. HARQ with blanking may be used for data transmission for the users in the first group. HARQ without blanking may be used for data transmission for the users in the second group.

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- 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))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

Published:

- with international search report

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