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(71) Applicant (for all designated States except US): **QUALCOMM INCORPORATED** [US/US]; 5775 Morehouse Drive, San Diego, California 92121 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KHANDEKAR, Aamod** [IN/US]; 8465 Regents Road, #339, San Diego, California 92122 (US). **SUTIVONG, Arak** [TH/US];

8840 Costa Verde Boulevard, #3439, San Diego, California 92122 (US). **PALANKI, Ravi** [IN/US]; 7699 Palmilla Drive, #3209, San Diego, California 92122 (US).

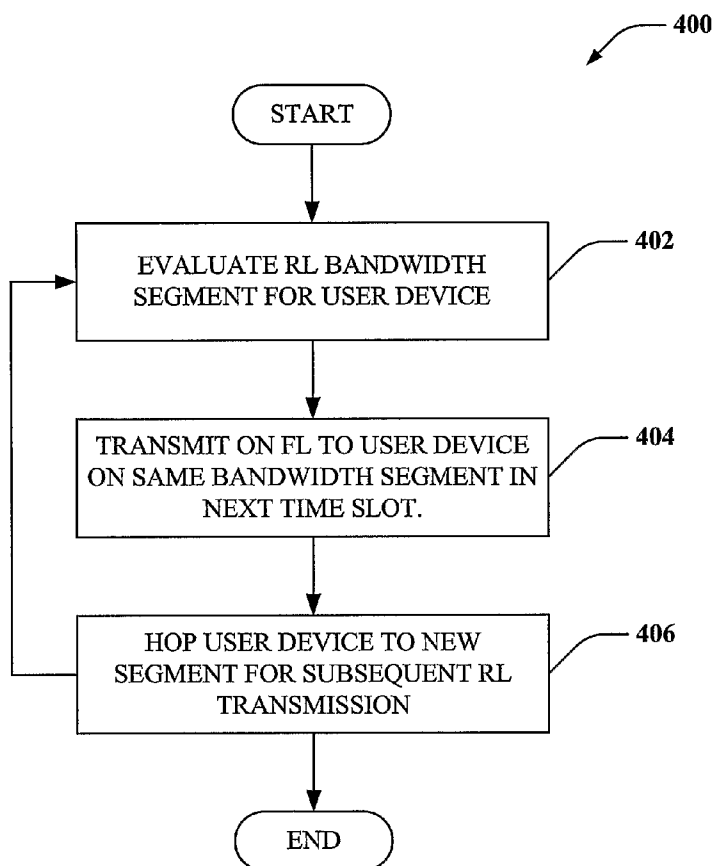
(74) Agents: **WADSWORTH, Philip, R.** et al.; 5775 Morehouse Drive, San Diego, California 92121 (US).

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(54) Title: EFFICIENT SUPPORT FOR TDD BEAMFORMING VIA CONSTRAINED HOPPING AND ON-DEMAND PILOT



(57) Abstract: Systems and methodologies are described that facilitate providing time-division duplexed beam-forming support in traditionally non-time-division duplexed wireless systems, such as an OFDMA system, a WCDMA system, etc. According to an aspect, a base station can analyze pilot information, such as a portion of bandwidth over which a user device is transmitting, and can transmit on the downlink using pre-hopped portion of bandwidth utilized by the user device on the preceding reverse link time slot. The base station can additionally transmit bandwidth segment reassignments to the user device to facilitate bandwidth segment hopping between user devices served by the base station. Additionally, the base station can instruct the user device to provide on-demand pilot information to resolve ambiguity related thereto.

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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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