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

(72) Inventors; and

(75) Inventors/Applicants (for US only): **PARIZHSKY, Vladimir** [US/US]; 415 Central Park West. Apt 10E, New York, NY 10025 (US). **LAROA, Rajiv** [IN/US]; 7 Springcroft Road, Far Hills, New Jersey 07931 (US). **LEONIDOV, Alexander** [RU/US]; 207 Driscoll Ct., Somerset, New Jersey 08873 (US). **RICHARDSON, Thomas** [US/US]; 420 Clark Street, South Orange,

New Jersey 07079 (US). **LI, Junyi** [CN/US]; 357 Wren Lane, Bedminster, New Jersey 07921 (US). **UPPALA, Sathyadev Venkata** [IN/US]; 402 Springhouse Drive, Whitehouse Station, NJ 08889 (US).

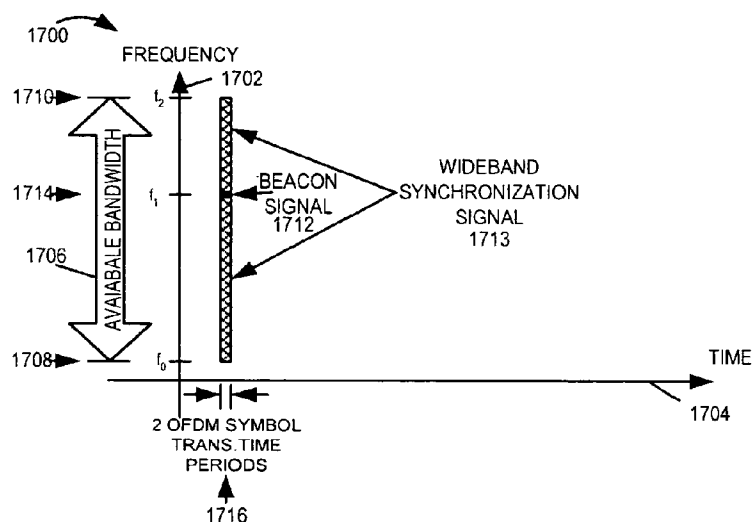
(74) Agents: **OGROD, Gregory D.** et al.; Attn: International IP Administration, 5775 Morehouse Drive, San Diego, California 92121 (US).

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(54) Title: METHODS AND APPARATUS RELATED TO COMPOSITE BEACON AND WIDEBAND SYNCHRONIZATION SIGNALING



(57) Abstract: A composite signal includes a high power beacon signal and low power corresponding wideband synchronization signal and is communicated over a time interval exceeding a single OFDM transmission time interval. A base station transmits one or more different such composite broadcast signals in a recurring timing structure. Each different potential beacon signal, e.g., a single tone signal, is paired with a unique wideband synchronization signal. A wideband synchronization signal includes at least some predetermined null tones and at least some predetermined non-null tones. For a given wideband synchronization signal, the predetermined null tones carry predetermined modulation symbol values. A wireless terminal receives a composite signal, identifies a beacon, determines a corresponding known wideband synchronization signal, compares received to known wideband synchronization signals, and determines at least one of a timing adjustment, frequency adjustment and channel estimation.

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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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- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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