



- (51) **International Patent Classification:**  
*H04L 5/00* (2006.01)
- (21) **International Application Number:**  
PCT/US2017/059930
- (22) **International Filing Date:**  
03 November 2017 (03.11.2017)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**  
62/417,958 04 November 2016 (04.11.2016) US  
15/802,149 02 November 2017 (02.11.2017) US
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(81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA,

(54) **Title:** DEDICATED REFERENCE SIGNAL FOR PHYSICAL BROADCAST CHANNEL

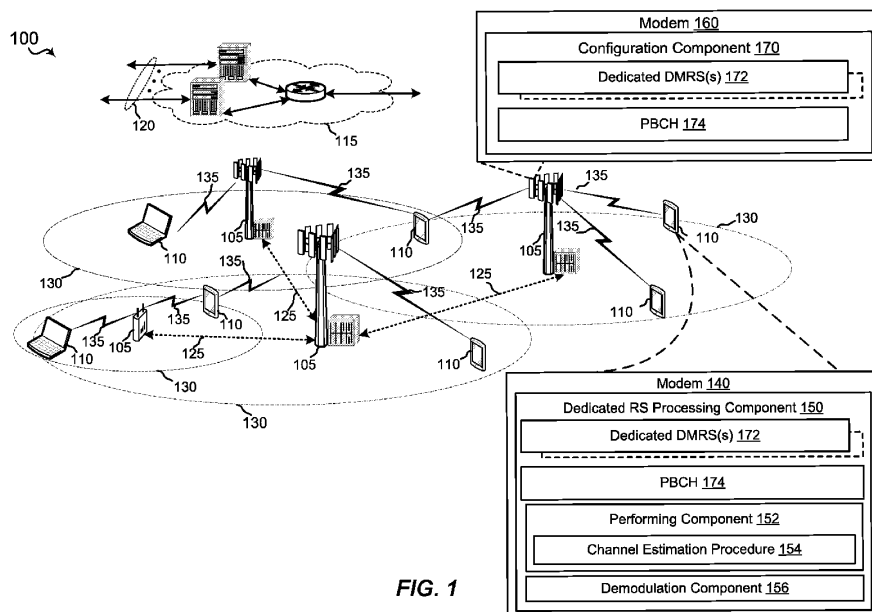


FIG. 1

(57) **Abstract:** A method and apparatus for utilizing a dedicated reference signal for demodulating a Physical Broadcast Channel (PBCH) in a wireless communication system is disclosed. For example, the method and apparatus include configuring, at a network entity, at least one dedicated Demodulation Reference Signal (DMRS) in one or more symbols corresponding to a PBCH, each dedicated DMRS being used for demodulating the PBCH. The described aspects further include transmitting, by the network entity, the at least one dedicated DMRS to one or more UEs using at least a single antenna port.

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SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report (Art. 21(3))