

(43) International Publication Date
15 December 2011 (15.12.2011)(10) International Publication Number
WO 2011/156264 A2(51) International Patent Classification:
H04W 48/06 (2009.01) *H04W 28/02* (2009.01)(21) International Application Number:
PCT/US2011/039250(22) International Filing Date:
6 June 2011 (06.06.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/352,096 7 June 2010 (07.06.2010) US
61/354,979 15 June 2010 (15.06.2010) US
61/359,063 28 June 2010 (28.06.2010) US
61/484,115 9 May 2011 (09.05.2011) US(71) Applicant (for all designated States except US): **INTER-DIGITAL PATENT HOLDINGS, INC.** [US/US]; 3411 Silverside Road, Concord Plaza, Suite 105, Hagley Building, Wilmington, DE 19810 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **WATFA, Mahmoud** [CA/CA]; 7162 De Pontoise, Saint Leonard, Québec H1S 2B3 (CA). **AGHILI, Behrouz** [SE/US]; 32 Bethal Lane, Commack, NY 11747 (US). **OLVERA-HERNANDEZ, Ulises** [MX/CA]; 2 Rolland Laniel, Kirkland, Québec H9J 4A5 (CA).(74) Agent: **WOLINSKY, Scott**; Volpe and Koenig, P.C., 30 S. 17th Street, United Plaza, Philadelphia, PA 19103 (US).

(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, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, 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, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report (Rule 48.2(g))

(54) Title: METHOD AND APPARATUS FOR TRANSMITTING SERVICE REQUEST MESSAGES IN A CONGESTED NETWORK

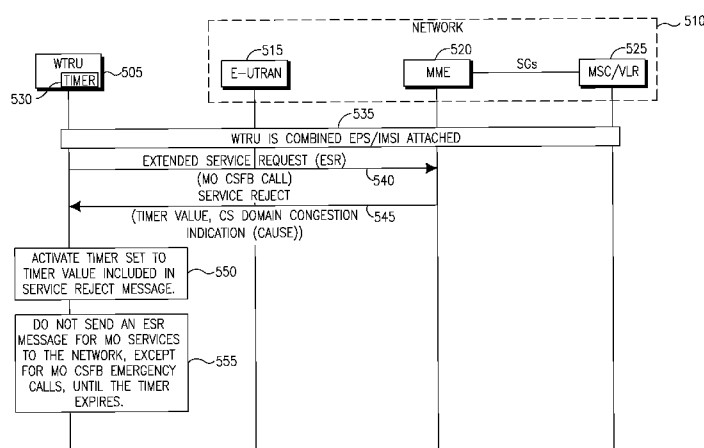


FIG. 5

(57) Abstract: A method and apparatus are described for transmitting service request messages in a congested network. In one embodiment, a message including a timer value may be received by a wireless transmit/receive unit (WTRU) having a timer that is set based on the timer value. Once the timer is activated, the WTRU may not attempt to transmit a service request message to a network for mobile originated (MO) services, except for MO emergency calls, until the timer expires. In another embodiment, the timer may be deactivated in response to receiving a page for a mobile terminated (MT) call. The congested network may include a mobility management entity (MME) and a mobile switching center (MSC)/visitor location register (VLR). The MME may apply a congestion control criteria to the WTRU based on whether a timer in the MME is activated or expired.