

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
17 November 2022 (17.11.2022)



(10) International Publication Number
WO 2022/240636 A1

(51) International Patent Classification:
H04L 12/753 (2013.01) *H04W 84/18* (2009.01)
H04L 12/751 (2013.01)

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(21) International Application Number:
PCT/US2022/027687

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(22) International Filing Date:
04 May 2022 (04.05.2022)

(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, IQ, IR, IS, IT, JM, 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, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
17/318,634 12 May 2021 (12.05.2021) US

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(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,

(54) Title: TARGETED PARENT SELECTION FOR BATTERY-POWERED DEVICES

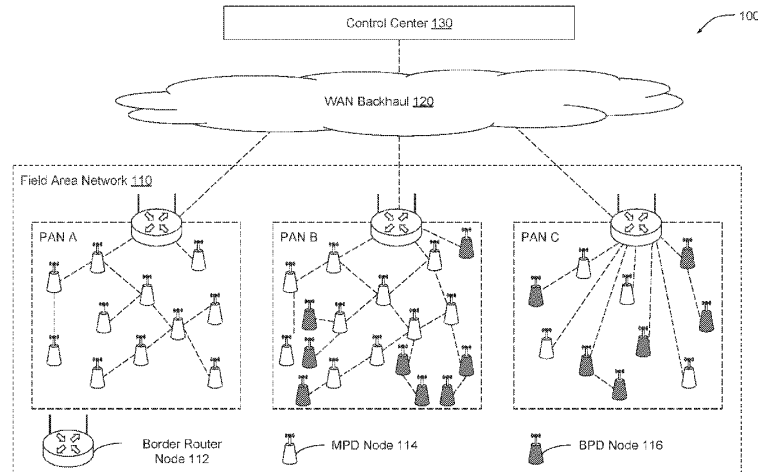


FIGURE 1

(57) Abstract: In various embodiments, a system within a wireless network comprises a set of battery-powered device (BPD) nodes within the wireless network, and a joining BPD node that identifies, in a subset of BPD nodes, a set of potential parent nodes, filters the set of BPD nodes based on network optimization criteria to identify a target parent node, and transmits a request message to establish a communications link with the target parent node as a child node, where the target parent node in the set of BPD nodes executes instructions to receive the request message from the joining BPD node, evaluate data associated with the joining BPD node with acceptance criteria, and upon determining that the joining BPD node meets the acceptance criteria, establish the communications link with the joining BPD node, where, upon the communications link being established, the joining BPD node is a child to the target parent node.

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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))*