

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
24 February 2022 (24.02.2022)



(10) International Publication Number
WO 2022/040171 A1

- (51) **International Patent Classification:**
H04L 12/00 (2006.01) *H04L 12/28* (2006.01)
- (21) **International Application Number:**
PCT/US2021/046283
- (22) **International Filing Date:**
17 August 2021 (17.08.2021)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
63/067,189 18 August 2020 (18.08.2020) US
- (71) **Applicant: OMNIFI INC.** [US/US]; 6701 Koll Center Parkway, Suite 250, Pleasanton, CA 94566 (US).
- (72) **Inventor: EPSTEIN, Joseph, Alan;** 6701 Koll Center Parkway, Suite 250, Pleasanton, CA 94566 (US).
- (74) **Agent: PALERMO, Christopher, J.;** Baker Botts L.L.P., 1001 Page Mill Road, Building One, Suite 200, Palo Alto, CA 94304 (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, 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, IT, 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.
- (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).

(54) **Title:** WI-FI VIRTUALIZATION

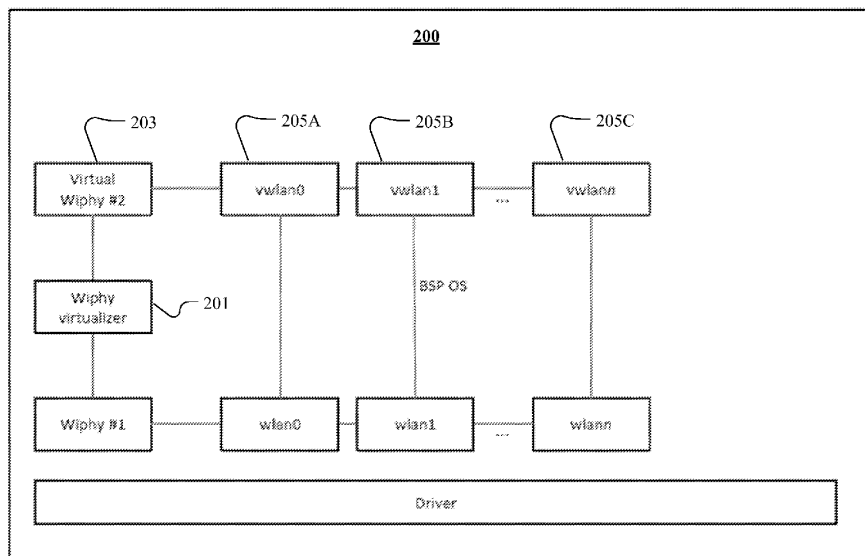


FIG. 2

(57) **Abstract:** In one embodiment, a wireless network system includes a set of one or more wireless radios, and a set of software for the wireless network system that comprises a data structure representing the set of one or more wireless radios and a virtualization module that registers one or more virtualized data structures representing a virtual proxy of the set of one or more wireless radios.

[Continued on next page]

WO 2022/040171 A1

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

Published:

- *with international search report (Art. 21(3))*
- *with amended claims (Art. 19(1))*