

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
26 March 2020 (26.03.2020)



(10) International Publication Number
WO 2020/060579 A1

- (51) **International Patent Classification:**
G16H 40/67 (2018.01) *H04L 29/08* (2006.01)
- (21) **International Application Number:**
PCT/US2018/066483
- (22) **International Filing Date:**
19 December 2018 (19.12.2018)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
16/137,053 20 September 2018 (20.09.2018) US
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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, 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))

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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,

(54) **Title:** DATA STORAGE AND RETRIEVAL SYSTEM FOR NON-CONTIGUOUS MEDICAL DEVICE OPERATIONAL DATA

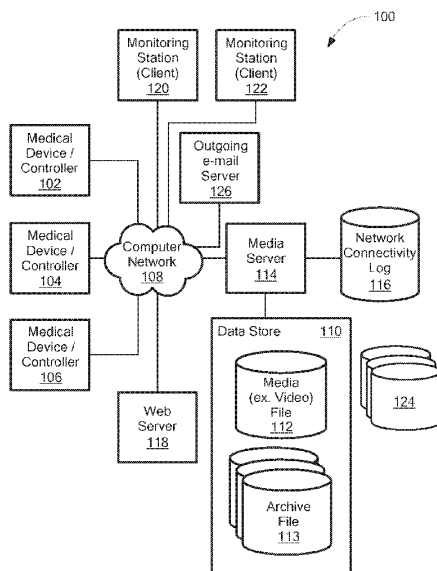


FIG. 1

(57) **Abstract:** A web-based interface enables medical personnel to remotely monitor medical devices. A monitoring system records operational data and alarms from the medical devices in a file. However, since network connections between the medical devices and the monitoring system are intermittent, the file does not contain a contiguous stream of data for each medical device. The file pauses recording during gaps in network connectivity. The system displays current data, as well as a list of alarms. If medical personnel wish to view more detail about an earlier time or one of the alarms, the system calculates where in the file the medical device data was recorded. This calculation accounts for the discontinuous nature of the data. The system uses times the network connection is made and broken to calculate an index into the file that corresponds to the time of the user-selected alarm.

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