

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
27 October 2022 (27.10.2022)



(10) International Publication Number
WO 2022/225813 A1

(51) International Patent Classification:

H04L 41/0677 (2022.01) H04L 43/065 (2022.01)
H04L 41/0686 (2022.01) H04L 43/08 (2022.01)

(21) International Application Number:

PCT/US2022/025023

(22) International Filing Date:

15 April 2022 (15.04.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

17/236,312 21 April 2021 (21.04.2021) 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, 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.

(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: MANAGING OUTAGE REPORTING USING LAST GASPS

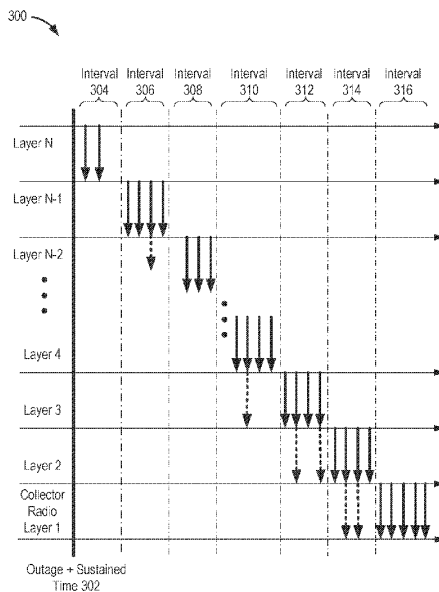


FIG. 3

(57) Abstract: Detecting an outage by a first node in layer N of a multi-layer mesh network that is in communication with a root node via the mesh network. After waiting for a sustained outage period that expires, the first node waits for a layer-specific time interval that is based on a topology of the second layer. The first node receives a last gasp from a second node in layer $N+1$ of the multi-layer mesh network. The last gasp includes an identifier for the second node and an indication of layer $N+1$. After the layer-specific time interval expires, the first node transmits a consolidated last gasp that includes an identifier for the first node, an indication of layer N , the identifier for the second node, and the indication of layer $N+1$.

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Published:

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