

(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 2022/226243 A1

(51) International Patent Classification:

H04L 67/10 (2006.01) **H04L 12/26** (2006.01)
G06F 1/12 (2006.01) **G06F 1/14** (2006.01)
H04L 12/24 (2006.01)

(21) International Application Number:

PCT/US2022/025843

(22) International Filing Date:

21 April 2022 (21.04.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/178,999	23 April 2021 (23.04.2021)	US
63/320,160	15 March 2022 (15.03.2022)	US
17/520,836	20 April 2022 (20.04.2022)	US
17/725,404	20 April 2022 (20.04.2022)	US

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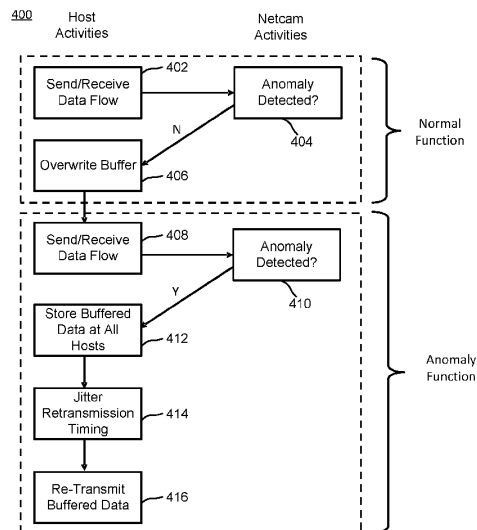
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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, 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,

(54) Title: CLOCK-SYNCHRONIZED EDGE-BASED NETWORK FUNCTIONS

FIG. 4



(57) Abstract: Network traffic is monitored to coordinate control of data flows and detect anomalies. For a data flow transmitted between sender and receiver hosts, pre-defined amounts of sent and received network traffic of the data flow is recorded. The data flow is monitored, based on time stamps of data packets in the network traffic, for an anomaly. Responsive to determining that no anomaly is detected, the recorded sent and received network traffic is overwritten with newly sent and newly received network traffic, respectively. Responsive to determining that an anomaly is detected, the data flow is paused, which causes the sender host to store the recorded sent network traffic to a first buffer and causes the receiver host to store the recorded received network traffic to a second buffer.

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[Continued on next page]

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))*
- *before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))*