



- (51) **International Patent Classification:**
H04L 12/56 (2006.01) *H04L 29/06* (2006.01)
- (21) **International Application Number:**
PCT/US2015/051528
- (22) **International Filing Date:**
22 September 2015 (22.09.2015)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
62/057,763 30 September 2014 (30.09.2014) US
14/678,671 3 April 2015 (03.04.2015) US
- (71) **Applicant:** LEVEL 3 COMMUNICATIONS, LLC
[US/US]; 1025 Eldorado Boulevard, Broomfield, CO
80021 (US).
- (72) **Inventors:** SELLA, William, Thomas; 10865 Omaha
Lane, Parker, CO 80138 (US). CAPUTO, Pete, Joseph;
10705 Addison Ct., Highlands Ranch, CO 80126 (US).
SELLA, James, Michael; 12223 N Lost Cannon Trail,
Parker, CO 80138 (US).
- (74) **Agents:** CORNWELL, David, K.s. et al.; Sterne Kessler
Goldstein & Fox P.L.L.C., 1100 New York Avenue, Nw,
Washington, DC 20005 (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, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR,
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))

(54) **Title:** ALLOCATING CAPACITY OF A NETWORK CONNECTION TO DATA STEAMS BASED ON TYPE

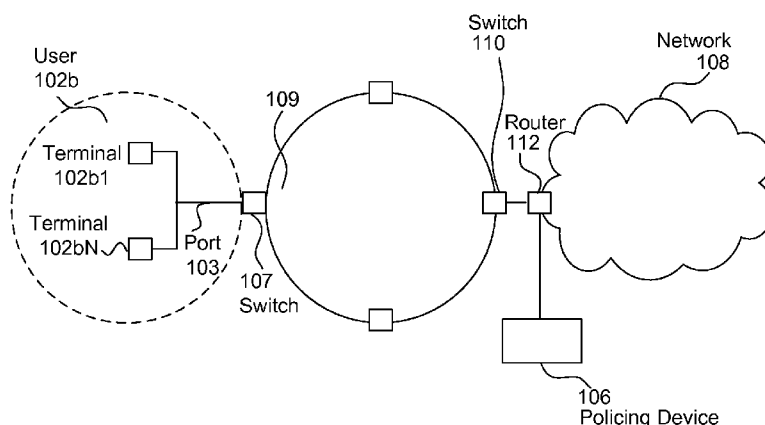


FIG. 1B

(57) **Abstract:** A user of a communication network may have specific requirements for its critical data streams. The user may require dedicated channel capacity for its critical application. A dedicated channel may be separate from a common channel carrying non-critical data of the user. The user may create policies for assigning channel capacities to its critical data streams based on various criteria. The user may also create policies on sharing the dedicated channel capacity among its different critical data streams.

