

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

(19) World Intellectual Property  
Organization  
International Bureau

(43) International Publication Date  
24 June 2021 (24.06.2021)



(10) International Publication Number  
**WO 2021/122161 A1**

(51) International Patent Classification:  
**H04B 7/185** (2006.01)

(21) International Application Number:  
PCT/EP2020/085087

(22) International Filing Date:  
08 December 2020 (08.12.2020)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
2024538 20 December 2019 (20.12.2019) NL

(71) Applicant: **SATADSL SA** [BE/BE]; Avenue Hermann-Debroux 54, 1160 AUDERGHEM (BE).

(72) Inventor: **SANSONE, Fulvio**; Waverse Steenweg 1505, 1160 BRUSSELS (BE).

(74) Agent: **ARNOLD & SIEDSMA**; Bezuidenhoutseweg 57, 2594 AC The Hague (NL).

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).

**Published:**

- with international search report (Art. 21(3))
- in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE

(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,

(54) Title: EXTENDED SATELLITE TELECOMMUNICATION SYSTEM AND VIRTUAL HUB MODULE THEREOF

(57) Abstract: A satellite telecommunication system for effecting communication between a network and remote systems via forward and return satellite links, the satellite telecommunication system comprising: a gateway configured for establishing the forward and return satellite links; wherein the gateway comprises a satellite hub configured for receiving outgoing data and for transmitting said outgoing data to at least one of the remote systems; wherein a first traffic controlling module of the satellite hub is configured for obtaining a first flow of the outgoing data such that said first flow follows a predetermined traffic profile; a virtual hub module configured for forwarding, from the network, the outgoing data to the satellite hub; wherein a second traffic controlling module of the virtual hub module is configured for obtaining a second flow of the outgoing data forwarded from the virtual hub module such that said second flow is unchanged by the first traffic controlling module. Figure 1

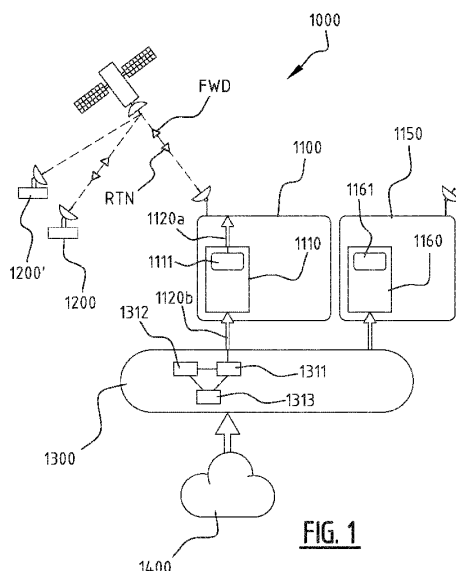


**FIG. 1**

WO 2021/122161 A1