



- (51) **International Patent Classification:**
H04L 29/06 (2006.01) *H04L 29/12* (2006.01)
- (21) **International Application Number:**
PCT/US2021/050982
- (22) **International Filing Date:**
17 September 2021 (17.09.2021)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
63/081,259 21 September 2020 (21.09.2020) US
63/129,459 22 December 2020 (22.12.2020) US
- (71) **Applicant:** VISA INTERNATIONAL SERVICE ASSOCIATION [US/US]; P.O. Box 8999, San Francisco, California 94128 (US).
- (72) **Inventors:** KOZLOV, Evgeny; P.O. Box 8999, San Francisco, California 94128 (US). VADHRI, Srinivas;

P.O. Box 8999, San Francisco, California 94128 (US). ORESHIN, Alexey; P.O. Box 8999, San Francisco, California 94128 (US). MHASDE, Swapnil Vasant; P.O. Box 8999, San Francisco, California 94128 (US). GREVTSOV, Vadim; P.O. Box 8999, San Francisco, California 94128 (US). SATHYANARAYANA NAGA, Harsha; P.O. Box 8999, San Francisco, California 94128 (US).

(74) **Agent:** JEWIK, Patrick et al.; 1100 Peachtree Street, NE Suite 2800, Atlanta, Georgia 30309 (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, 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, 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,

(54) **Title:** ALIAS DIRECTORY

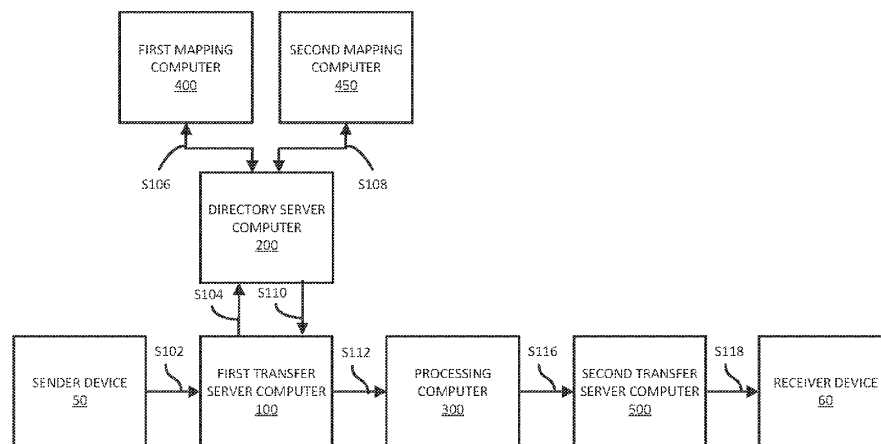


FIG. 1

(57) **Abstract:** A method is disclosed and includes receiving an alias resolve request message comprising an alias from a transfer server, and then transmitting the alias resolve request message comprising the alias to plurality of mapping computers. Then, a plurality of alias resolve response messages are received from the plurality of mapping computers, the plurality of alias resolve response messages respectively comprising a plurality of credentials or tokens. A credential or token from the plurality of credentials or tokens is then determined and transmitted to transfer server computer. The transfer server computer conducts a transaction process using the determined credential or token.

[Continued on next page]

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).

Declarations under Rule 4.17:

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

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