



- (51) **International Patent Classification:**
H04L 9/00 (2006.01) *G06F 21/30* (2013.01)
- (21) **International Application Number:**
PCT/IB2018/052174
- (22) **International Filing Date:**
29 March 2018 (29.03.2018)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
201741011235 29 March 2017 (29.03.2017) IN
- (71) **Applicant:** INNOVITI PAYMENT SOLUTIONS PRIVATE LIMITED [IN/IN]; "NGR the EDGE", 2nd & 3rd Floors, No. 41, 3rd Main, 5th Cross, Saibaba Mandir Road, Cambridge Layout, Halasuru, Bangalore 560008 (IN).
- (72) **Inventors:** AGRAWAL, Rajeev; Innoviti Payment Solutions Private Limited, "NGR The EDGE", No. 41, 3rd Main, 5th Cross, Sai Baba Mandir Road, Cambridge Layout, Halasuru, Bangalore 560008 (IN). RAO, Hari Charan Ramachandra; #221, 4th Main Road, 6th A Cross, Panduranga Nagar, Off B G Road, Bangalore 560076 (IN). G V, Phani Kumar; No. A004, Manjunatha Homes, 4th A Cross, Abbiah Reddy Layout, Kaggadasapura, Bangalore 560093 (IN). AGARWAL, Shashank; 411 E Block, Ozone Evergreen, Haralur Road, Bangalore 560102 (IN). IYER, Kartik Chandrasekar; #77, 2nd floor, 17th Main, 7th Cross, Near Mico Layout Police Station, BTM 2nd Stage, BTM Layout, Bangalore 560076 (IN). SOOD, Ashish; No. A-23, First Floor, Kudremukh Colony, Koramangala 2nd Block, Bangalore 560034 (IN).
- (74) **Agent:** THIPPAPPA, Madhusudan Siddara et al.; K&S Partners, Intellectual Property Attorneys, 4121/B, 6th

(54) **Title:** METHOD AND SYSTEM FOR ESTABLISHING SECURE COMMUNICATION BETWEEN TERMINAL DEVICE AND TARGET SYSTEM

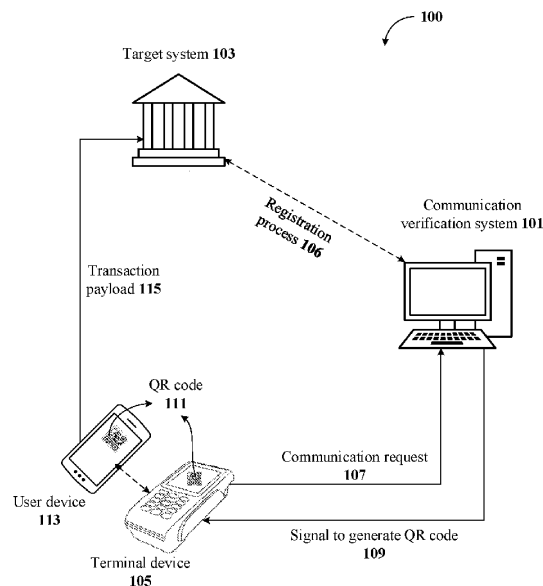


FIG. 1

(57) **Abstract:** Disclosed herein is a method and system for establishing secure communication between a terminal device and a target system. The method comprises validating the terminal device and the target system based on a communication request received from the terminal device. Upon validation, the terminal device is signaled to generate a Quick Response (QR) code corresponding to the communication request. Subsequently, the QR code generated at the terminal device is processed using a predetermined verification interface configured in a user device for establishing the secure communication between the terminal device and the target system. In an embodiment, the present disclosure helps users in completing a transaction based on the QR code generated at the terminal device, and thereby eliminates requirement of using a credit card/debit card and the like for completing the transaction.

[Continued on next page]



Cross, 19A Main, HAL II Stage, (Extension), Bangalore
560038 (IN).

(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, 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, 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).

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))*
- *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))*
- *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*