

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
02 November 2023 (02.11.2023)



(10) International Publication Number
WO 2023/212310 A1

- (51) **International Patent Classification:**
G06Q 30/018 (2023.01) *H04L 9/00* (2022.01)
- (21) **International Application Number:**
PCT/US2023/020391
- (22) **International Filing Date:**
28 April 2023 (28.04.2023)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
63/336,993 29 April 2022 (29.04.2022) US
- (71) **Applicant: MASTERCARD INTERNATIONAL INCORPORATED** [US/US]; 2000 Purchase Street, Purchase, NY 10577 (US).
- (72) **Inventors: ANASTASIA, Jonathan**; 61 Fernwood Road, Larchmont, NY 10538 (US). **ATRE, Himanshu**; 13002 Montmartre Drive, Creve Coeur, MO 63141 (US).
- (74) **Agent: KLOCINSKI, Steven**; Mastercard International Incorporated, 2000 Purchase Street, Purchase, NY 10577 (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, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, 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, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, ME, 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:** A SYSTEM AND METHOD FOR ASSESSING A RISK SCORE FOR A NON- FUNGIBLE TOKEN TRANSACTED ON A BLOCKCHAIN

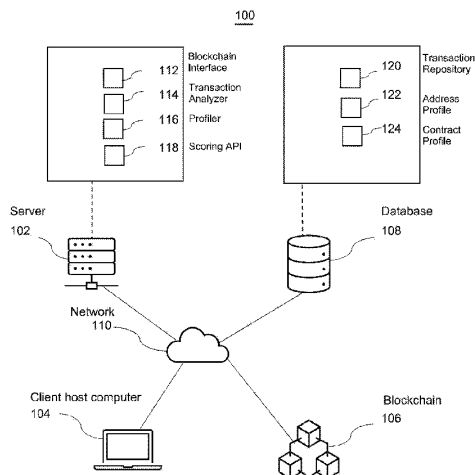


FIG. 1

(57) **Abstract:** A system for assessment of a risk score for a non-fungible token transacted on a blockchain wherein the system is configured to generate a provenance score based on the derived ownership history of the specific non-fungible token, generate a smart contract score based on the retrieved smart contract code for the specific non-fungible token, generate a permanence score based on the retrieved smart contract code for the specific non-fungible token, and generate a comprehensive risk score for the specific non-fungible token based on the generated provenance score, smart contract score, and permanence score for the specific non-fungible token.

WO 2023/212310 A1