

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
17 March 2022 (17.03.2022)



(10) International Publication Number
WO 2022/054079 A1

(51) International Patent Classification:

G06F 16/35 (2019.01) G06F 40/279 (2020.01)
G06F 40/10 (2020.01) G06F 40/30 (2020.01)

(21) International Application Number:

PCT/IN2021/050862

(22) International Filing Date:

06 September 2021 (06.09.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

202041038647 08 September 2020 (08.09.2020) IN

(71) Applicant: **IQREATE INFOTECH PVT LTD** [IN/IN];
Townhub, 2nd Floor, 837/1, 100 Ft Road, Indiranagar, Bengaluru 560038, Karnataka (IN).

(72) Inventors: **RAKESH**, Srivastava; B-003, Vineyard Garden, 5/5 Ramamurthy Nagar main Road, Dodda Banaswadi, Bangalore 560043, Karnataka, Bengaluru (IN). **KIRAN, Kumar**; D-304, Friends Paradise, 2550 9th Cross, 13th Main, E Block, Sahakamagar, Bangalore, Karnataka, Bengaluru 560092 (IN). **NITIN, Gupta**; C-1/23, Ashok Vihar, Phase 2, Delhi, Bengaluru 110052 (IN).

(74) Agent: **ABHAY, Porwal**; IPPRO Services (India) LLP. 102, Prestige Loka 7/1, Brunton Road Bangalore – 560025, Bengaluru (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, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD,

(54) Title: SYSTEM FOR CONTEXTUAL AND POSITIONAL PARAMETERIZED RECORD BUILDING

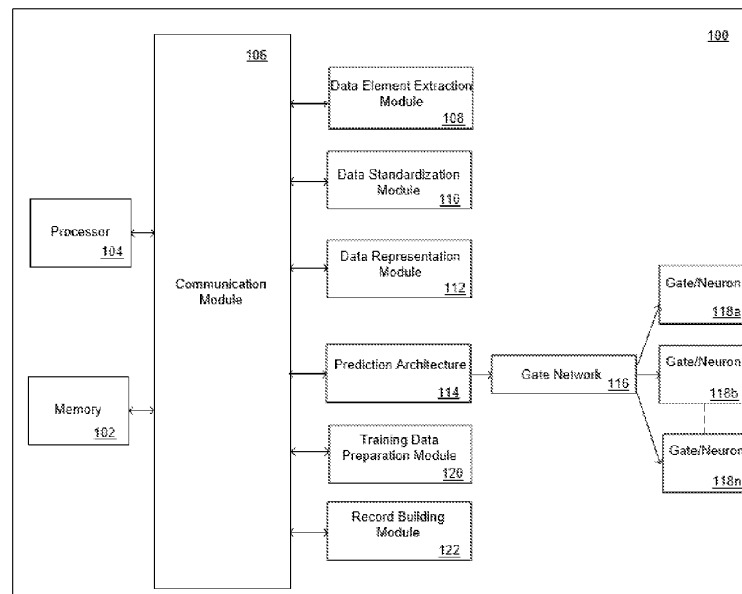


FIG. 1

(57) Abstract: The invention relates to a system for contextual and positional parameterized record building. The system provides a mechanism to track any data record, information element or its parts to extract graphical/logical and contextual location in source documents and construct a data tree representation using a data representation module. The information extraction is enabled by a learning approach that incorporates graphical positional features into the model building process. A prediction architecture includes a gate network having a plurality of gates/neurons. Each gate/neuron is associated with an activation function based on a pre-built logic to perform a specific operation and operates on signals received at the gate/neuron. A record building module constructs one or more records based on candidate data values derived from the data tree representation using the prediction architecture. The candidate data values are wrapped in signals and fed to gates/neurons to construct the one or more records.

[Continued on next page]

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*