

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
05 December 2024 (05.12.2024)



(10) International Publication Number
WO 2024/248630 A1

- (51) **International Patent Classification:**
G06F 16/20 (2019.01) *G06F 9/44* (2018.01)
- (21) **International Application Number:**
PCT/NZ2024/050060
- (22) **International Filing Date:**
30 May 2024 (30.05.2024)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
2023901691 30 May 2023 (30.05.2023) AU
- (71) **Applicant:** **XERO LIMITED** [NZ/NZ]; 19-23 Taranaki Street, Te Aro, Wellington, 6011 (NZ).
- (72) **Inventors:** **PLAKSINA, Lena**; c/o Xero Limited, 19-23 Taranaki Street, Te Aro, Wellington, 6011 (NZ). **JACKA, Dan**; 19-23 Taranaki Street, Te Aro, Wellington, 6011 (NZ). **PRETORIUS, Ilonke**; c/o Xero Limited, 19-23 Taranaki Street, Te Aro, Wellington, 6011 (NZ).
- (74) **Agent:** **FB RICE PTY LTD**; Level 33, 477 Collins Street, Melbourne, Victoria 3000 (AU).
- (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:** SYSTEMS, METHODS AND COMPUTER READABLE MEDIA FOR COMPARING STRUCTURED DATA

(57) **Abstract:** A computer-implemented method comprises determining a first data object and a second data object; and for each of the first and second data objects, separating the respective data object into one or more key-value pairs, and for each key-value pair: determining if the object type of the value is a value type object or a reference type object, responsive to determining that the value is a reference type object, determining whether the reference type object value can be separated into key-value pairs, and responsive to determining that the reference type object value can be separated into key-value pairs, separating the reference type object value into one or more key-value pairs. The method further comprises comparing the first data object with the second data object, wherein said comparing comprises, for each value that is a value type object in the one or more key-value pairs of the first and second objects, comparing a value of a key-value pair of the first object with a corresponding value of the corresponding key-value pair in the second object.

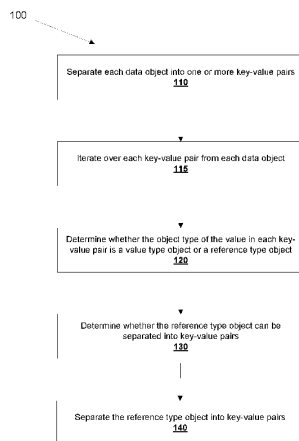


Fig. 1

WO 2024/248630 A1