



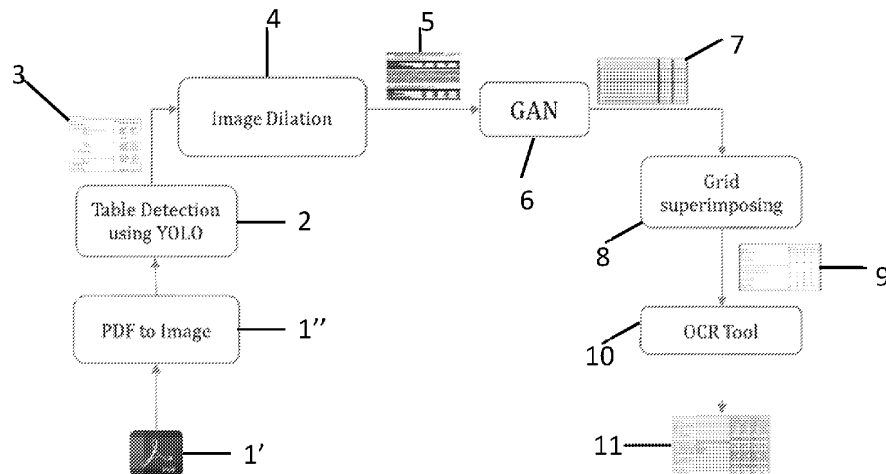
- (51) International Patent Classification:
G06F 40/177 (2020.01) *G06F 40/216* (2020.01)
- (21) International Application Number:
PCT/US2021/037998
- (22) International Filing Date:
18 June 2021 (18.06.2021)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
20180937.3 18 June 2020 (18.06.2020) EP
- (71) Applicant: **MORNINGSTAR INC.** [US/US]; 22 West Washington Street, Chicago, Illinois 60602 (US).
- (72) Inventors: **KOTWAL, Vaibhav**; c/o Morningstar India, Platinum Techno Park, 9th Floor, Plot No. 17 & 18, Sector 30A, Vashi, Navi Mumbai 400705 (IN). **DESHIPANDE, Swapnil**; c/o Morningstar India, Platinum Techno Park, 9th Floor, Plot No. 17 & 18, Sector 30A, Vashi, Navi Mumbai 400705 (IN). **YADAV, Kartik**; c/o Morningstar India, Platinum Techno Park, 9th Floor, Plot No. 17 & 18, Sec-

tor 30A, Vashi, Navi Mumbai 400705 (IN). **GAWADE, Tushar**; c/o Morningstar India, Platinum Techno Park, 9th Floor, Plot No. 17 & 18, Sector 30A, Vashi, Navi Mumbai 400705 (IN). **NIKHIL, Sule**; c/o Morningstar India, Platinum Techno Park, 9th Floor, Plot No. 17 & 18, Sector 30A, Vashi, Navi Mumbai 400705 (IN). **SHARIQ, Ahmad**; c/o Morningstar Inc., 22 West Washington Street, Chicago, Illinois 60602 (US).

(74) Agent: **KAISER, Iona N.** et al.; 909 Fannin Street, Suite 2700, Houston, Texas 77010 (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, 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.

(54) Title: METHOD, COMPUTER SYSTEM AND COMPUTER PROGRAM PRODUCT FOR IMPROVED TABLE PROCESSING



(57) Abstract: In a first aspect, the invention pertains to a computer-implemented method for improved grid-less table processing. In a second and third aspect, the invention pertains to a computer system and a computer program product for improved grid-less table processing. In a fourth aspect, the invention pertains use of any of the method, system or product for document parsing.

[Continued on next page]

(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:

— *of inventorship (Rule 4.17(iv))*

Published:

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