

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
04 June 2020 (04.06.2020)



(10) International Publication Number
WO 2020/110072 A1

(51) International Patent Classification:

G01N 21/25 (2006.01) G01N 33/48 (2006.01)
G01N 21/59 (2006.01) G06T 7/00 (2017.01)
G01N 21/62 (2006.01) G06N 3/02 (2006.01)

(21) International Application Number:

PCT/IB2019/060310

(22) International Filing Date:

29 November 2019 (29.11.2019)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2018904551 29 November 2018 (29.11.2018) AU

(71) Applicant: **LA TROBE UNIVERSITY** [AU/AU]; La Trobe University, Victoria 3086 (AU).

(72) Inventors: **ABBEY, Brian**; c/- La Trobe University, Melbourne, Victoria 3086 (AU). **BALAUER, Eugeniu**; c/- La Trobe University, Melbourne, Victoria 3086 (AU).

(74) Agent: **FPA PATENT ATTORNEYS PTY LTD**; Level 43, 101 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, 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:

— of inventorship (Rule 4.17(iv))

(54) Title: AUTOMATED METHOD OF IDENTIFYING A STRUCTURE

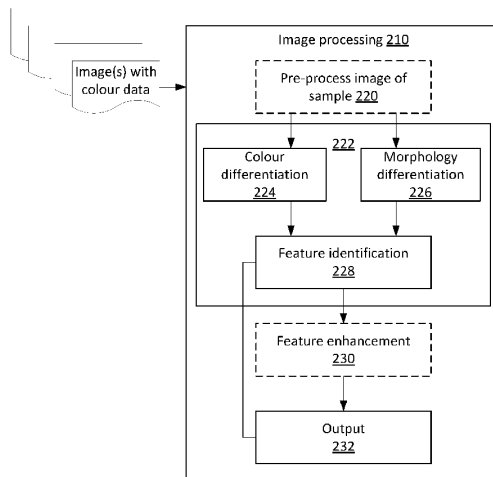


FIG. 3

(57) Abstract: An automated method of identifying a structure in a sample is disclosed. The method includes receiving at least one digital image of a sample wherein at least one localised structural property of the sample is visible in the image based on the colour of received light. The method involves processing the at least one image, based on the received colour information to selectively identify said structure. The method can include colour and/or morphology based image analysis.

[Continued on next page]

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*