

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
13 February 2025 (13.02.2025)



(10) International Publication Number
WO 2025/034122 A1

(51) International Patent Classification:

A61B 5/00 (2006.01) A61B 5/11 (2006.01)
A61B 3/00 (2006.01) G16H 50/20 (2018.01)
A61B 3/113 (2006.01)

(21) International Application Number:

PCT/NZ2024/050085

(22) International Filing Date:

05 August 2024 (05.08.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2023902472 04 August 2023 (04.08.2023) AU

(71) Applicant: VRF VAULT LIMITED [NZ/NZ]; 123 Remuera Road, Remuera, Auckland, 1050 (NZ).

(72) Inventors: BREBNER, David; C/- VRF Vault Limited, 123 Remuera Road, Remuera, Auckland, 1050 (NZ).
DANESH-MEYER, Helen Victoria; C/- VRF Vault Limited, 123 Remuera Road, Remuera, Auckland, 1050 (NZ).
MCDONALD, Matthew Adam; C/- VRF Vault Limited, 123 Remuera Road, Remuera, Auckland, 1050 (NZ).

(74) Agent: TUCK, Jason Karl et al.; James & Wells, Private Bag 3140, Hamilton, 3240 (NZ).

(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.

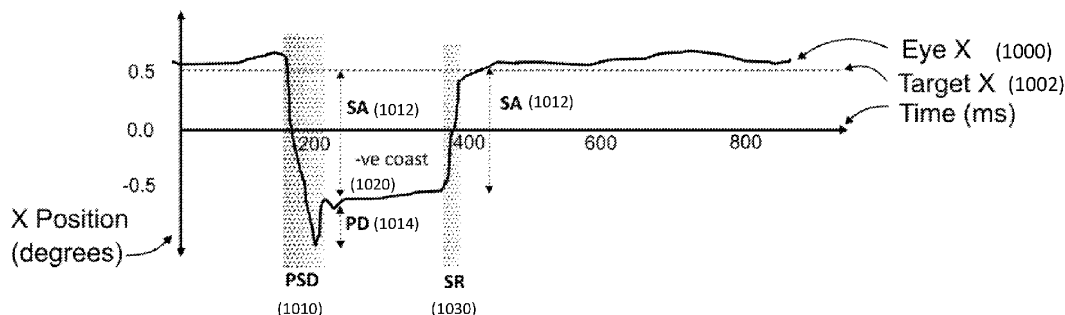
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, 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))
- in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE

(54) Title: METHODS AND SYSTEMS FOR ASSESSING THE PRESENCE OF TRAUMATIC BRAIN INJURY

Figure 2F



(57) Abstract: Methods and systems for assessing the health of a patient's brain are described. In certain forms, an assessment of the presence of traumatic brain injury (TBI) in the patient is performed, for example mild traumatic brain injury (mTBI), by analysing data representative of the movement of an eye of the patient.