

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
12 January 2023 (12.01.2023)



(10) International Publication Number
WO 2023/282829 A1

(51) International Patent Classification:

B62D 55/24 (2006.01) *E02F 9/26* (2006.01)
B62D 55/32 (2006.01) *G01M 17/007* (2006.01)
G01M 17/03 (2006.01)

(72) Inventor: **CHRISTENSEN, Assar**; Bågegatan 1, 891 31 Örnköldsvik (SE).

(74) Agent: **ZACCO SWEDEN AB**; P.O. Box 5581, Löjtnantsgatan 21, 114 85 Stockholm (SE).

(21) International Application Number:

PCT/SE2022/050685

(22) International Filing Date:

05 July 2022 (05.07.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2150889-0 06 July 2021 (06.07.2021) SE

(71) Applicant: **BAE SYSTEMS HÄGGLUNDS AKTIEBOLAG** [SE/SE]; 891 82 Örnköldsvik (SE).

(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, IQ, IR, IS, IT, JM, 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 AND DEVICE FOR DETERMINING DAMAGE OF AN ENDLESS TRACK OF A TRACKED VEHICLE

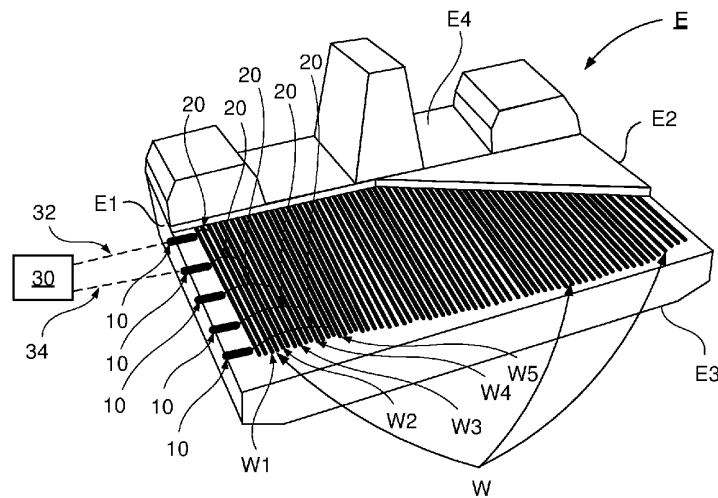


Fig. 3

(57) Abstract: The present invention relates to a method (M1; M2) and an arrangement for determining damage of an endless track (E) of a tracked vehicle (V). Said track (E) comprises a wire configuration (W) arranged within said track (E) configured to run in the longitudinal extension around said track (E). A set of measuring connectors (10) are connected to wire portions of the wire configuration (W) to facilitate measuring electrical properties of the thus connected wire portions, said set of measuring connectors (10) being accessible by means of one or more sensor devices (30) in connection to at least one side (E1, E2) of said endless track (E). The method comprises the steps of: receiving (S1) information associated with electrical properties of wire portions of said wire configuration (W); based on the received information determining (S2) electrical properties of said wire portions; and, based on the determined electrical properties, determining (S3) whether there is a damage to the endless track (E).

WO 2023/282829 A1

[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).

Published:

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