

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

(19) World Intellectual Property
Organization
International Bureau



(10) International Publication Number
WO 2020/030992 A1

(43) International Publication Date
13 February 2020 (13.02.2020)

(51) International Patent Classification:

G05D 1/02 (2006.01) B61L 23/02 (2006.01)
B60W 50/00 (2006.01) B61L 23/06 (2006.01)
B61L 23/00 (2006.01)

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(21) International Application Number:

PCT/IB2019/054830

(22) International Filing Date:

10 June 2019 (10.06.2019)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/682,537 08 June 2018 (08.06.2018) US

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(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,

(54) Title: CONTROLLER, SYSTEM AND METHOD FOR VEHICLE CONTROL

(57) Abstract: A controller for a vehicle includes a processor configured to repeatedly perform operations, at each control iteration among a plurality of control iterations along a path- of the vehicle from a start location to a target location. The operations include, based on a current state of the vehicle, generating a travel plan for a remainder of the path from a current position of the vehicle to the target location, by solving an optimization problem; The operations further include controlling a motoring and braking system of the vehicle to execute the generated travel plan until a next control iteration among the plurality of control iterations.



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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))*
- *in black and white; the international application as filed
contained color or greyscale and is available for download
from PATENTSCOPE*