



(51) International Patent Classification:
G01C 3/08 (2006.01)

(21) International Application Number:
PCT/US2010/025004

(22) International Filing Date:
23 February 2010 (23.02.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
12/489,570 23 June 2009 (23.06.2009) US

(71) Applicant (for all designated States except US):
GEORGETOWN RAIL EQUIPMENT COMPANY
[US/US]; 111 W. Cooperative Way, Suite 100, George-
town, TX 78626 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **VILLAR, Christo-
pher, M.** [US/US]; 905 W. 9th St., Georgetown, TX
78626 (US). **NAGLE, John, Anthony** [US/US]; 1005
Tallow Trail, Cedar Park, TX 78613-3222 (US). **OR-
RELL, Steven, C.** [US/US]; 100 Hester Hollow, George-
town, TX 78628 (US).

(74) Agents: **LAYE, Jade, O.** et al.; Howrey LLP, 2941
Fairview Park Dr. Suite 200, Falls Church, VA 22042
(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, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP,
KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,
ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI,
NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ,
TM), European (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, SE, SI, SK, SM,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

Published:

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

(54) Title: TILT CORRECTION SYSTEM AND METHOD FOR RAIL SEAT ABRASION

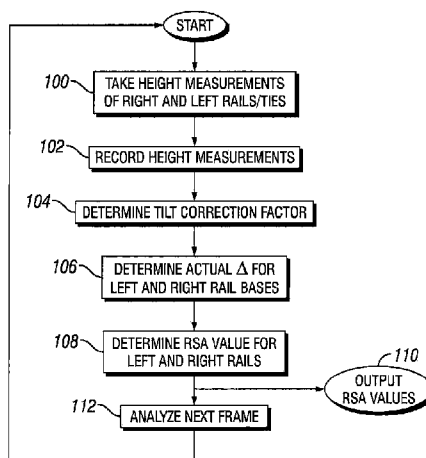


FIG. 18

(57) Abstract: A system and method for determining rail seat abrasion of a rail road track is disclosed. An inspection system comprises lasers, cameras, and processors adapted to determine whether rail seat abrasion is present along the track. The processor employs a mathematics based algorithm which compensates for tilt encountered as the inspection system moves along the track.