



- (51) **International Patent Classification:**
B61H 11/06 (2006.01) *B61C 17/12* (2006.01)
- (21) **International Application Number:**
PCT/US2011/063041
- (22) **International Filing Date:**
2 December 2011 (02.12.2011)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
12/976,267 22 December 2010 (22.12.2010) 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, 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, QA, RO, RS, RU, RW, 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, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

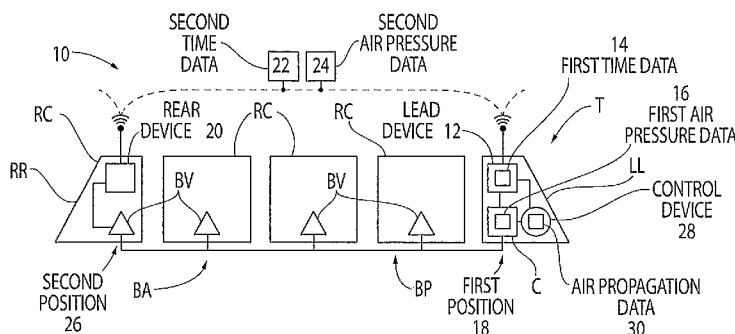
Published:

- 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))

(88) Date of publication of the international search report:

16 August 2012

(54) **Title:** SYSTEM AND METHOD FOR DETERMINING AIR PROPAGATION DATA IN A BRAKING ARRANGEMENT OF A TRAIN

**FIG. 1**

(57) **Abstract:** A system for determining air propagation rate through a pneumatically-controlled braking arrangement of a train, the braking arrangement having a controller for adjusting air pressure of air transmitted through a brake pipe from a lead locomotive to a rear railcar, the system including: a lead device positioned on the lead locomotive and configured to associate first time data with first air pressure data sensed in the brake pipe at a first position; a rear device positioned on the rear railcar and configured to associate second time data with second air pressure data sensed in the brake pipe at a second position; and a control device configured to determine air propagation data based at least partially upon at least one of the following: first time data, first air pressure data, the first position, second time data, second air pressure data, the second position, or any combination thereof.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2011/063041**A. CLASSIFICATION OF SUBJECT MATTER*****B61H 11/06(2006.01)i, B61C 17/12(2006.01)i***

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

B61H 11/06; B61L 23/00; B61L 23/02; G01P 3/66

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: propagatino,brake,air

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 05374015A A (BEZOS; ANGEL P. et al.) 20 December 1994 See column 5, line 29-column 6, line 16;column 13, line 37-column 17, line 30 ;claims 1, 2 and figures 1, 19-22	1-20
A	US 05844126A A (LABRUYERE; YVAN) 01 December 1998 See column 3, lines 3-51 and figures 1, 3	1-20
A	US 05507457A A (KULL; ROBERT C.) 16 April 1996 See column 2, line 22-column 3, line 55 and figure 1	1-20

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

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Date of the actual completion of the international search

27 JUNE 2012 (27.06.2012)

Date of mailing of the international search report

27 JUNE 2012 (27.06.2012)

Name and mailing address of the ISA/KR

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City, 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2011/063041

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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		EP 0769692 B1	18.09.2002
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