



(51) International Patent Classification:
A62C 3/07 (2006.01)

(21) International Application Number:
PCT/US2011/045694

(22) International Filing Date:
28 July 2011 (28.07.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
12/907,872 19 October 2010 (19.10.2010) US

(71) Applicant (for all designated States except US): **FIRE-TRACE USA, LLC** [US/US]; 15690 North 83rd Way, Scottsdale, AZ 85260 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ECKHOLM, William, A.** [US/US]; 9406 E. Sandy Vista Drive, Scottsdale, AZ 85262 (US). **SAMPSON, Matthew** [US/US]; 21320 North 56th Street, Unit 2129, Phoenix, AZ 85054 (US).

(74) Agent: **NEWSON, Gary, W.**; The Noblitt Group, PLLC, 4800 North Scottsdale Road, Suite 6000, Scottsdale, AZ 85251 (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, LR, LS, MW, MZ, NA, 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).

Published:

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

(54) Title: METHODS AND APPARATUS FOR HAZARD CONTROL AND SIGNALING

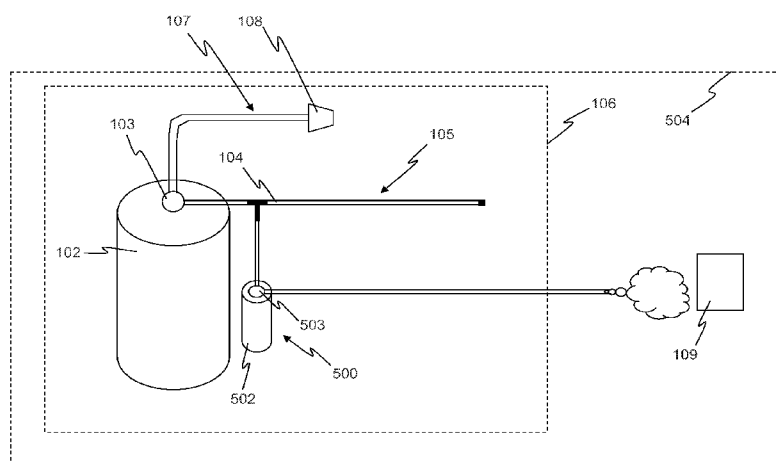


FIGURE 5

(57) Abstract: A hazard control system according to various aspects of the present invention is configured to deliver a control material in response to detection of a hazard and signal a secondary hazard detection system that an event has occurred. In one embodiment, the hazard control system comprises a pressure tube having an internal pressure that is configured to leak in response to exposure to heat. The leak, changes the internal pressure and generates a pneumatic signal. A valve may be coupled to the pressure tube and be configured to release the control material from a container in response to the pneumatic signal. A second valve may also be coupled to the pressure tube and be configured to provide a signal to the secondary hazard detection system in response to the pneumatic signal.