

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
25 June 2009 (25.06.2009)

PCT

(10) International Publication Number
WO 2009/078837 A1

(51) International Patent Classification:
B66B 13/12 (2006.01)

(21) International Application Number:
PCT/US2007/025783

(22) International Filing Date:
18 December 2007 (18.12.2007)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): **INVENTIO AG** [CH/CH]; Seestrasse 55, CH-6052 Hergiswil (CH).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **UMBAUGH, Barry, K.** [US/US]; 259 Longstreet Drive, Gettysburg, Pennsylvania 17325 (US).

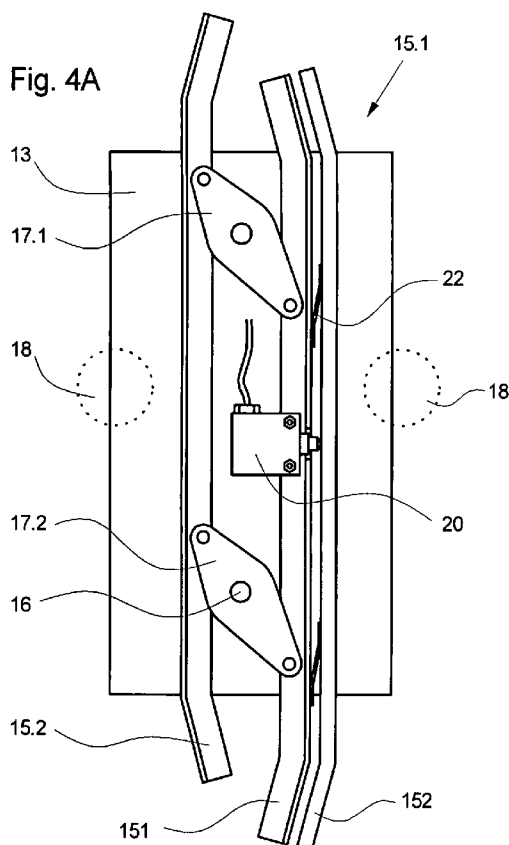
(74) Agent: **KEANE, Patrick, C.**; Buchanan Ingersoll & Rooney PC, PO Box 1404, Alexandria, Virginia 22313-1404 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, 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, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL,

[Continued on next page]

(54) Title: LOCKING SYSTEM FOR A LIFT DOOR



(57) Abstract: A locking system for a lift door, in particular a car door (5) of a lift car (1) and/or a shaft door, comprises a locking device which in an unlocked state enables opening of the lift door, and in a locked state restricts, in particular prevents opening of the lift door; a reference element (18); a counter element (15.1; 152) which interacts with the reference element (18), in particular mechanically, electrically, magnetically, acoustically and/or optically, in a prescribed measure when the lift car (1) is located in a permissible position relative to a shaft door; a sensor (20) for outputting a preferably electrical signal when the reference element and the counter element (15.1; 152) are interacting with one another; and a control device for transferring the locking device from the locked state into the unlocked state as a function of the signal, the reference element (18) preferably being arranged on the shaft door.



PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— *of inventorship (Rule 4.17(iv))*

Published:

— *with international search report*