



(51) International Patent Classification:

H04L 29/08 (2006.01) *A61G 10/00* (2006.01)
G05B 19/418 (2006.01) *F24F 11/00* (2006.01)
H04L 12/28 (2006.01)

(21) International Application Number:

PCT/US2012/057476

(22) International Filing Date:

27 September 2012 (27.09.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/541,653	30 September 2011 (30.09.2011)	US
13/398,593	16 February 2012 (16.02.2012)	US
13/474,231	17 May 2012 (17.05.2012)	US

(71) Applicant (for all designated States except US):
SIEMENS INDUSTRY, INC. [US/US]; 3333 Old Milton
 Parkway, Alpharetta, Georgia 30005-4437 (US).

(72) Inventor; and

(71) Applicant (for US only): **BARKER, Kimberly, Ann**
 [US/US]; 929 E. Bissell Drive, Palatine, Illinois 60074
 (US).

(74) Agents: **BURTON, Thomas, J.** et al.; Siemens Corpora-
 tion- Intellectual Property Dept., 170 Wood Avenue South,
 Iselin, New Jersey 08830 (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, BN, 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, PA, 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,

[Continued on next page]

(54) Title: OCCUPANCY DRIVEN PATIENT ROOM ENVIRONMENTAL CONTROL

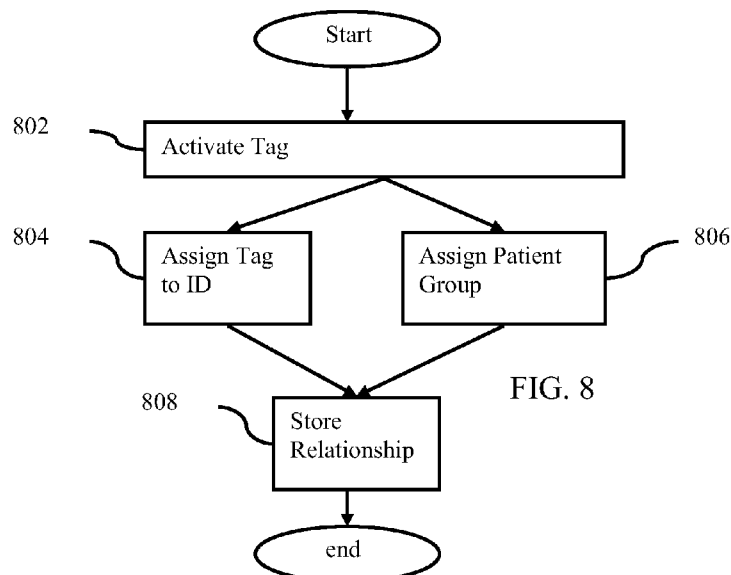


FIG. 8

(57) Abstract: Using a real-time loca-
 tion system, the hospital environment is
 controlled locally. By categorizing indi-
 viduals detected at different locations,
 the proper control may be provided to
 enhance energy savings and maintain a
 comfortable patient environment
 without sacrificing safety. By altering
 the environment within a room for pa-
 tients and not staff and/or based on the
 type of patient, more optimized and loc-
 alized control may be provided, such as
 implementing a number of air changes
 per hour appropriate for detected pa-
 tients within rooms.



GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, 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, 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).

— *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:

15 August 2013

Published:

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