(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
22 October 2015 (22.10.2015)

WIPO | PCT

(10) International Publication Number
WO 2015/158876 A1

(51) International Patent Classification:
B25J 9/16 (2006.01) *B25J 11/00* (2006.01)

(21) International Application Number:
PCT/EP2015/058353

(22) International Filing Date:
17 April 2015 (17.04.2015)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
14305577.0 17 April 2014 (17.04.2014) EP

(71) Applicant: **ALDEBARAN ROBOTICS** [FR/FR]; 43 rue du Colonel Pierre Avia, F-75015 Paris (FR).

(72) Inventors: **LE BORGNE, Mathias**; 43 rue du Colonel Pierre Avia, F-75015 Paris (FR). **MAISONNIER, Bruno**; Villa Adrienne, 19, avenue du Général Leclerc, F-75014 Paris (FR). **MONCEAUX, Jérôme**; 9, rue Boussingault, F-75013 Paris (FR). **VELTROP, Taylor**; 43 rue du Colonel Pierre Avia, F-75015 Paris (FR). **HERVIER, Thibault**; 43 rue du Colonel Pierre Avia, F-75015 Paris (FR). **JACOB, Guillaume**; 43 rue du Colonel Pierre Avia, F-75015 Paris (FR). **GATE, Gwennael**; 75, rue du Javelot, F-75013 Paris (FR).

(74) Agents: **LOPEZ, Frédérique** et al.; Immeuble Visium, 22, avenue Aristide Briand, F-94117 Arcueil Cedex (FR).

(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, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, 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, SA, 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, ST, 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, KM, ML, MR, NE, SN, TD, TG).

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))*

(54) **Title**: SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR HANDLING HUMANOID ROBOT INTERACTION WITH HUMAN

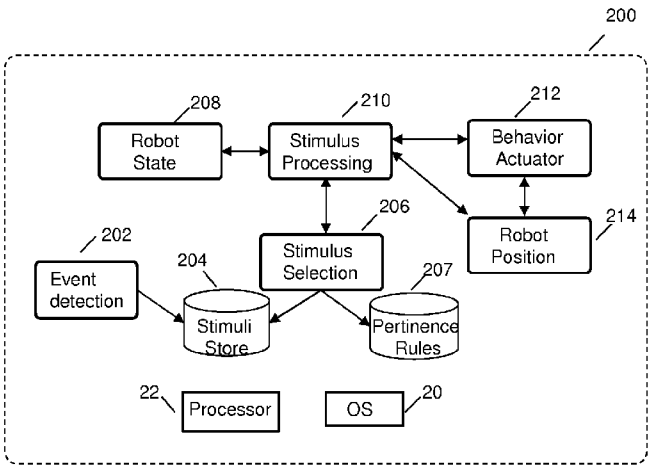

FIG. 2

(57) **Abstract**: A method of handling humanoid robot interaction with human is disclosed. The method allows systematically storing all events detected within a humanoid robot environment, and classifying as temporary stimuli. When the robot is set to analyze the events, a process allows selecting one preferred stimulus among the stored stimuli and depending on the current activity of the robot, one or more actions are generated for the robot.

WO 2015/158876 A1