

Nicolas Vargas

Title: ISOLATED ORTHOSIS FOR THUMB ACTUATION

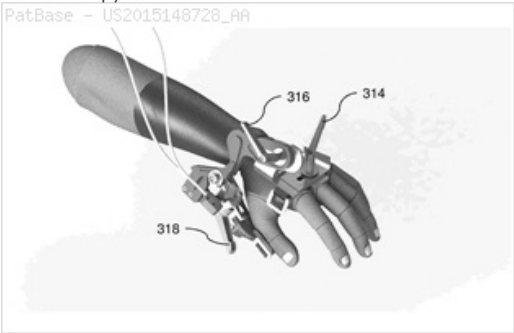
Abstract: An orthosis system includes an orthotic device adapted to be worn on the hand of a subject that includes at least one brace component coupled to one or more fingers of the hand and including at least one joint permitting movement of one or more fingers. One or more actuators can be connected to each joint to cause movement of the joint. A control unit can be provided to control each of the actuators to control the movements of each joint separately. The control unit can be operated by the subject or a clinician to facilitate everyday tasks or for treatment or therapy.

Classifications:

International (IPC 8-9): A61F5/00 A61F5/01
A61F5/10 (Advanced/Invention)

CPC: A61H1/0285 A61H1/0288 A61H2201/1215 A61H2201/1246
A61H2201/165 A61H2201/1659 A61H2201/5007 A61H2201/5015
A61H2201/5038 A61H2201/5046 A61H2201/5061 A61H2201/5069
A61H2201/5084 A61H2201/5092 A61H2201/5097 A61H2230/605
A61F5/013 A61F5/10

US: 602/22



Family:

Publication number	Publication date	Application number	Application date
US2015148728 AA	20150528	US20120343458	20120910
WO13036925 A2	20130314	WO2012US54453	20120910
WO13036925 A3	20130502	WO2012US54453	20120910

Priority:

US20110532181P 20110908 US20120343458 20120910 WO2012US54453 20120910

Probable Assignee: HARVARD COLLEGE

Assignee(s): (std): CHILDRENS MEDICAL CENTER ; CORREIA ANNETTE ; HARVARD COLLEGE ; STIRLING LEIA ; SALLUM HANI M

Assignee(s): CHILDREN S MEDICAL CENTER CORP ; PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Inventor(s): (std): CORREIA ANNETTE ; SALLUM HANI M ; STIRLING LEIA

Agent(s): RESNICK DAVID S ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: ROBOTIC OMNIWHEEL

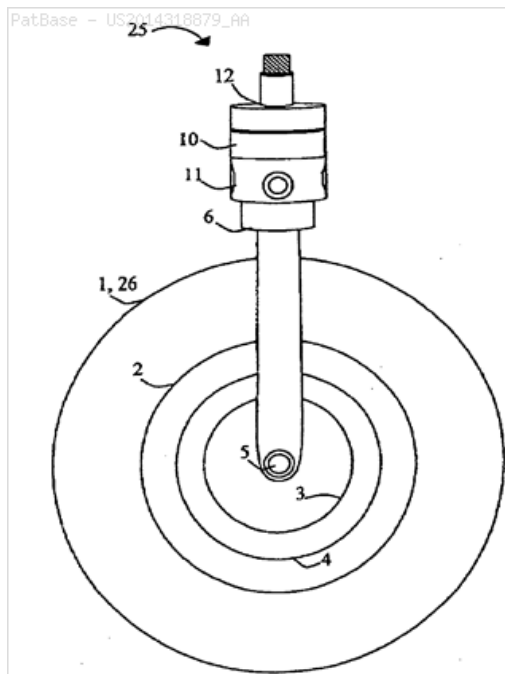
Abstract: A robotic omniwheel for motion comprising various components such as in wheel motor assemblies with brake, supportive hub and axle assemblies, strut and yoke assemblies for suspension, a motor device having controller for steering motion, a motorized universal joint for rocking motion, an active transmission rod to uniquely engage lift and expansion which are managed by a drive logic system comprising status control system and sensor array, laser radar, GPS, and as well a navigational control system including wireless remote control for communication and monitoring motion states for transport and to monitor power levels therein. As well, an electrical system includes battery array to furnish power for the robotic omniwheel array assemblies and to the electrical components via power cable. Accordingly, a navigational system can control components by a cell phone device and by a remote controller device with toggle switches, and also by a remote control panel having touch screen monitor and thusly allowing the robotic omniwheel array to move about in a holonomic manner for transport.

Classifications:

International (IPC 8-9): A63C17/01 A63C17/12 B60B19/00 B60K17/30 B60K31/00 B60K7/00 B60L11/18 B60W50/08 B62J99/00 B62K11/00 B62K11/02 B62K17/00 B62K21/12 B62K21/26 B62K23/02 B62K25/02 B62K5/08 G05D1/00 G05D1/02 (Advanced/Invention)

CPC: B60K17/30 B60K2007/0038 B60K2007/0092 G05D1/0276 B60K31/0058 A63C17/014 A63C17/12 B60Y2200/91 A63C2203/12 G05D1/0016 G05D1/0088 G05D1/0278 G05D1/0231 G05D1/0257 B62K11/007 B62K25/02 B60B19/003 B62K2204/00 B62K17/00 B62K21/12 B62K23/02 B62K21/26 B62K11/02 B62K5/08 B62J99/00 B60L11/1822 B60L2200/12 B60W2420/52 B60W2710/20 B62J2099/0013 B62J2099/004 B62K2207/00 B62K2207/02 B62K2207/04 B62K2700/22 G05D2201/0206 B60K7/0007 B60W50/082

US: 180/167

**Family:**

Publication number	Publication date	Application number	Application date
US2014318879 AA	20141030	US20130872054	20130426
US2017106737 AA	20170420	US20160269842	20160919
US2017106738 AA	20170420	US20160331820	20161022
US2017106739 AA	20170420	US20160379474	20161214
US2017190335 AA	20170706	US20170451405	20170306
US9586471 BB	20170307	US20130872054	20130426
US9902253 BB	20180227	US20160269842	20160919

Priority:

US20100655569 20100104
US20160331820 20161022

US20130872054 20130426
US20160379474 20161214

US20160269842 20160919
US20170451405 20170306

Probable Assignee:

GILLETT CARLA R

Assignee(s): (std):

GILLETT CARLA R

Assignee(s):

GILLETT MRS CARLA R

Inventor(s): (std):

GILLETT CARLA R

Title: METHOD OF USING MOTION STATES OF A CONTROL DEVICE FOR CONTROL OF A SYSTEM

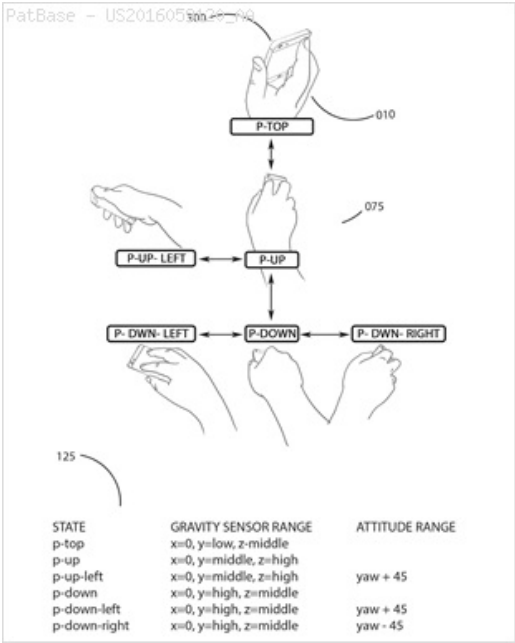
Abstract: This invention is for control of a system using motion states of a control device. The method enables complex system control typically controlled by complex controllers, but does not require any buttons or actuators, or video capture of body movements or gesture. An embodiment of the invention utilizes the gyroscope and accelerometer motion sensors of a control device such as a smart phone, smart watch, fitness band, or other device with motion sensors connected, via a cable or wirelessly, to a processor for analysis and translation.

Classifications:

International (IPC 8-9): A63F13/211 A63F13/219 (Advanced/Invention)

CPC: A63F13/211 A63F13/812 A63F13/92

US: 463/36



Family:

Publication number	Publication date	Application number	Application date
US2016059120 AA	20160303	US20140472164	20140828
WO16033387 A1	20160303	WO2015US47306	20150828

Priority:

US20140472164 20140828

Probable Assignee: AQUIMO LLC

Assignee(s): (std): AQUIMO LLC

Assignee(s): NORTON FAMILY LIVING TRUST

Inventor(s): (std): JEFFERY MARK ; KOMORUS KING ROBERT S ; RANA MANOJ ; RANA MANOJ KUMAR ; KOMOROUS KING ROBERT SUNSHIN ; JEFFERY MARK JOHN

Agent(s): MORGAN GEORGE D

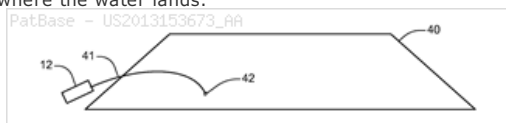
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: REMOTELY SENSING AND ADAPTING IRRIGATION SYSTEM

Abstract: An irrigation system continuously monitors status of lawns or plants under its care and directs water to where it is needed when it is needed to maintain lawn or plant health. The system can significantly reduce water usage, unnecessary seepage, and runoff. A water nozzle with a pan and tilt capability can direct water where it is needed. An image sensor can continually take and analyze images of the lawns or plants to determine watering needs. The image sensor can also monitor where the water is landing while the irrigation system is delivering water to the lawns or plants. This information can be used to adjust the water delivery aim to ensure that the intended spots are accurately irrigated. A laminar flow nozzle with minimal flow dispersion can improve water deliver accuracy and detection of where the water lands.

Classifications:

International (IPC 8-9): A01G25/00 A01G25/09 A01G25/16
 B05B12/12 B05B13/00 B05B9/01 G01N21/00 G05D1/02 G06K9/00
 G06Q50/02 H04N5/225 (Advanced/Invention)
CPC: A01G25/09 G05D1/0246 G06K9/0063 H04N5/2253 H04N5/2254
 G05D2201/0201 A01G25/16
US: 1/1 239/1 239/69 701/28

**Family:**

Publication number	Publication date	Application number	Application date
■ CN104023520 A	20140903	CN201280062812	20121219
■ CN104023520 B	20160608	CN201280062812	20121219
■ US2013153673 AA	20130620	US20120720733	20121219
■ US2017020087 AA	20170126	US20160050236	20160222
■ US9265204 BB	20160223	US20120720733	20121219
■ WO13096493 A1	20130627	WO2012US70695	20121219

Priority:

US20110577557P 20111219 US20120720733 20121219 WO2012US70695 20121219
 US20160050236 20160222

Probable Assignee: YOUNIS TECHNOLOGIES INC

Assignee(s): (std): YOUNIS ALI S ; YOUNIS SAED G ; YOUNIS TECH INC ; YOUNIS TECHNOLOGIES INC

Inventor(s): (std): YOUNIS ALI S ; YOUNIS SAED G

Agent(s): PROCOPIO CORY HARGREAVES AND SAVITCH LLP; ESSIG DANIEL L ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW