

(21) Application No: 1313403.6  
(22) Date of Filing: 16.11.2011  
Date Lodged: 26.07.2013  
(30) Priority Data:  
(31) 61428734 (32) 30.12.2010 (33) US  
(31) 61428717 (32) 30.12.2010 (33) US  
(31) 61428759 (32) 30.12.2010 (33) US  
(31) 61429863 (32) 05.01.2011 (33) US

(86) International Application Data:  
PCT/US2011/060935 En 16.11.2011

(87) International Publication Data:  
WO2012/091814 En 05.07.2012

(51) INT CL:  
G05D 1/02 (2006.01)

(56) Documents Cited:  
WO 2008/083489 A1 US 20090226113 A1  
US 20070293985 A1  
RAJESH ARUMUGAM ET AL DAVINCI A CLOUD COMPUTING FRAMEWORK FOR SERVICE ROBOTS  
BISTRY H ET AL A CLOUD COMPUTING APPROACH TO COMPLEX ROBOT VISION TASKS USING SMART CAMERA SYSTEMS  
NIMMAGADDA Y ET AL REAL-TIME MOVING OBJECT RECOGNITION AND TRACKING USING COMPUTATION OFFLOADING

(58) Field of Search:  
INT CL G05D

(71) Applicant(s):  
Irobot Corporation  
(Incorporated in USA - Massachusetts)  
8 Crosby Drive, Bedford 01730, Massachusetts,  
United States of America

(72) Inventor(s):  
Robert Todd Pack  
Timothy S Farlow  
Steven V Shamlian  
Michael T Rosenstein  
Michael Halloran  
Chikyung Won  
Mark Chiappetta

(74) Agent and/or Address for Service:  
Haseltine Lake LLP  
Redcliff Quay, 120 Redcliff Street, BRISTOL, BS1 6HU,  
United Kingdom

(54) Title of the Invention: **Mobile Robot System**  
Abstract Title: **Mobile Robot System**

(57) A robot system (1600) includes a mobile robot (100) having a controller (500) executing a control system (510) for controlling operation of the robot, a cloud computing service (1620) in communication with the controller of the robot, and a remote computing device (310) in communication with the cloud computing service. The remote computing device communicates with the robot through the cloud computing service.

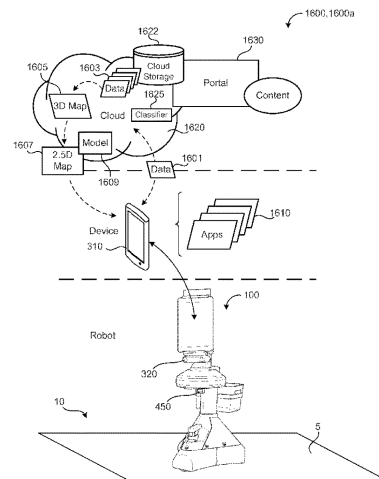


FIG. 16A