

Registro 1 de 1

Patent Number(s): US2015125831-A1

Title: Hand-held electronic device e.g. smartphone, has pin array comprising pin assembly with pin head that includes fully extended state and fully retracted state, and pin array controller controlling electric motor

Inventor Name(s): CHANDRASHEKHAR N S; GANESAN S

Patent Assignee(s): CHANDRASHEKHAR N S (CHAN-Individual); GANESAN S (GANE-Individual)

Derwent Primary Accession No.: 2015-28332C

Abstract: NOVELTY - The device has depth sensing cameras for capturing simultaneous images. A pin array (70) comprises a pin assembly that comprises a pin head, where the pin head is height adjustable using an electric motor. The pin head includes a fully extended state and a fully retracted state. A pin array controller (71) controls the electric motor. The pin assembly comprises a micro stepper motor that rotatably controls a threaded rod. The threaded rod is secured in a threaded aperture in the pin head. A pin guide engages a groove in the pin head to prevent rotation of the pin guide.

USE - Hand-held electronic device e.g. smartphone and tablet.

ADVANTAGE - The device allows a user to feel the environment in front of the user, thus avoiding objects without the use of a cane, seeing eye dog or a companion. The device has a forward portion that is directed forward of the user for accurate representations of an area in front of the user. The device allows the entire pin array to form a smooth surface, as opposed to using an array of binary pins only fully extended or fully retracted. The device utilizes an audible system to alert the user and let the user take proper precautions while walking to avoid injury.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method for providing tactile feedback.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic view of a system for providing multiple features for a visually impaired user in a form of a handheld electronic device.

Depth sensing cameras (51)

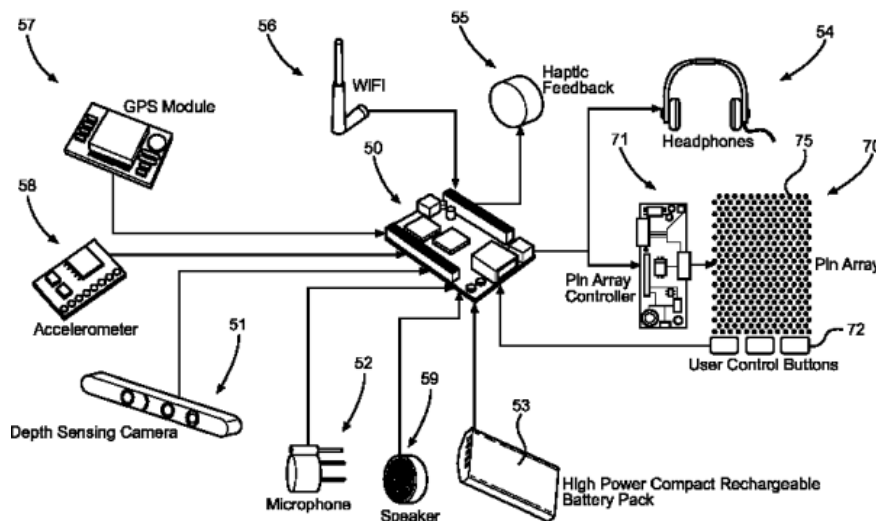
Microphone (52)

Speakers (59)

Pin array (70)

Pin array controller (71)

Drawing:



Derwent Class Code(s): P85 (Education, cryptography, adverts); V04 (Printed Circuits and Connectors); V06 (Electromechanical Transducers and Small Machines); W01 (Telephone and Data Transmission Systems)

Derwent Manual Code(s): V04-T; V06-N01; V06-N22; V06-U04E; W01-C01D3C; W01-C01G8; W01-C01P2

IPC: G09B-021/00

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
US2015125831-A1	07 May 2015	G09B-021/00	201534	Pages: 11	English

Application Details and Date:

US2015125831-A1 US493480 23 Sep 2014

Further Application Details:

US2015125831-A1 Provisional Application US901398P

Priority Application Information and Date:

US901398P 07 Nov 2013

