

Title (en)

INTERACTIVE SURFACE GAME SYSTEM BASED ON ULTRASONIC POSITION DETERMINATION

Title (de)

SPIELSYSTEM MIT INTERAKTIVER OBERFLÄCHE AUF DER GRUNDLAGE VON ULTRASCHALLPOSITIONSBESTIMMUNG

Title (fr)

SYSTEME DE JEU A SURFACE INTERACTIVE BASE SUR LA DETERMINATION ULTRASONORE D'UNE POSITION

Publication

**EP 1885465 A1 20080213 (EN)**

Application

**EP 05774287 A 20050815**

Priority

- IB 2005052690 W 20050815
- US 12528005 A 20050510

Abstract (en)

[origin: WO2006120508A1] A system for users to play games on regular surface (201) such as printed material is provided. The system consists of an ultrasonic pointing unit (216), an ultrasonic base unit (213), a control unit (220) and a response unit (240), together with response data (500) and game rules (1100). The user interacts with the surface (201) by placing the ultrasonic pointing unit (216) on various areas of the surface (10). Ultrasonic wave propagates between the ultrasonic point unit (216) and ultrasonic base unit (213). By measuring multiple time-of-flight of ultrasonic wave, the location of the ultrasonic pointing unit (216) could be determined, and the device makes appropriate audio or other responses. Also, with the additions of game rules (1100), the system could ask users questions, or instruct users to tracing pictures or letters, or instruct users to walk a maze, etc. A surface (201) is thereby transformed into an interactive experience with various sound or visual effects. The sound effects or other response data (540) and game rules (1100) are stored in data storage (230) accessible by the control unit (220). Any number of different surfaces (201) can be used as long as the specific response data (540) for each different surface (201) is stored in data storage (230) accessible by the control unit (220).

IPC 8 full level

**A63F 13/00** (2006.01)

CPC (source: EP US)

**A63F 9/183** (2013.01 - EP US); **G09B 5/06** (2013.01 - EP US); **A63F 9/0078** (2013.01 - EP US); **A63F 2009/2402** (2013.01 - EP US); **A63F 2009/2488** (2013.01 - EP US)

Citation (search report)

See references of WO 2006120508A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2006120508 A1 20061116**; EP 1885465 A1 20080213; US 2006258451 A1 20061116

DOCDB simple family (application)

**IB 2005052690 W 20050815**; EP 05774287 A 20050815; US 12528005 A 20050510