Title (en)

METHODS AND APPARATUS FOR APPLYING GEARING EFFECTS TO INPUT BASED ON ONE OR MORE OF VISUAL, ACOUSTIC, INERTIAL, AND MIXED DATA

Title (de)

VERFAHREN UND VORRICHTUNG ZUR AUSSTATTUNG EINES EINGANGS MIT GETRIEBEEFFEKTEN AUF BASIS VISUELLER, AKUSTISCHER, TRÄGER ODER GEMISCHTER DATEN

Title (fr)

PROCEDES ET APPAREIL POUR APPLIQUER DES EFFETS D'ADAPTATION A UNE ENTREE SUR LA BASE D'UNE OU PLUSIERS DONNEES VISUELLES, ACOUSTIQUE, INERTIELLES ET MELANGEES

Publication

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Application

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- US 38172806 A 20060504
- US 38172506 A 20060504
- US 38172706 A 20060504
- US 38172406 A 20060504
- US 38172106 A 20060504
- US 38203806 A 20060506
- US 38203606 A 20060506
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- US 38204006 A 20060507

Abstract (en)

[origin: WO2007130582A2] Methods and apparatus for interactive interfacing with a computer gaming system are provided. The computer gaming system includes a video capture device for capturing image data. One method includes displaying an input device to the video capture device, where the input device has a plurality of lights that are modulated so as to convey positioning of the input device and communication data that is to be interpreted by the computer gaming system based on analysis of the captured image data and a state of the plurality of lights. This method also includes defining movement of an object of a computer game that is to be executed by the computer gaming system, such that the movement of the object may be mapped to movements in position of the input device as detected in the captured image data. The method then establishes a gearing between the movement of the object of the computer game verses the movements in position of the input device. The gearing defines a ratio between movements in position of the input device and movements of the object. The gearing can be set dynamically by the game, by the user, or can be preset by software or user configured in accordance with a gearing algorithm. Embodiments of the input device can be used to provide inertial data, that can be geared, and can be interpreted by the computer gaming system. Still further, embodiments can use acoustic detection systems, as well as a mix of image capture, inertial capture, and acoustic capture, so as to apply desired gearing.

IPC 8 full level

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Citation (search report)

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