

Title (en)

MOBILE HOLOGRAPHIC SIMULATOR OF BOWLING PINS AND VIRTUAL OBJECTS

Title (de)

MOBILER HOLOGRAFISCHER SIMULATOR VON KEGELN UND VIRTUELLEN OBJEKTEN

Title (fr)

SIMULATEUR HOLOGRAPHIQUE MOBILE DE QUILLES DE BOWLING ET OBJETS VIRTUELS

Publication

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Application

EP 05728655 A 20050302

Priority

IT 2005000116 W 20050302

Abstract (en)

[origin: WO2006092813A1] A system with automatic positioning controls for the holographic display of three-dimensional objects interacting in real time with objects of the real world. The person observing the screen (18) has the sensation that the objects are real, which is achieved thanks to a real time perspective correction system (1). The system is used in particular to simulate bowling pins (9). It is positioned on the lane required by means of a dolly (6). The system determines a relation between the information received from the sensors: video cameras (1) (3), dimensions (26), weight (14) (27) and the mathematical simulation models. When the ball is bowled, its physical features are measured and when it hits the pin deck, some holographic pins are displayed on the screen (19). The screen holographically arranges the projected objects over what the bowler (18) sees behind the screen (19). The simulated movements of the pins and the physical interactions with the real objects are determined by exploiting the theory of mechanics in three-dimensional space.

IPC 8 full level

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