

Title (en)  
DEVICE FOR ASSESSING AND TRAINING THE PERCEPTUAL, COGNITIVE, AND MOTOR PERFORMANCE, AND METHOD THEREOF

Title (de)  
VORRICHTUNG ZUM BEURTEILEN UND TRAINIEREN DER PERZEPTUELLEN, KOGNITIVEN UND MOTORISCHEN PERFORMANCE UND VERFAHREN DAFÜR

Title (fr)  
DISPOSITIF D'ÉVALUATION ET D'ENTRAÎNEMENT DES PERFORMANCES DE PERCEPTION, DE COGNITION ET MOTRICES, ET SON PROCÉDE

Publication  
**EP 3417388 A1 20181226 (EN)**

Application  
**EP 17705963 A 20170215**

Priority  
• CH 2152016 A 20160219  
• IB 2017050835 W 20170215

Abstract (en)  
[origin: WO2017141166A1] A simulator synchronized with a high-accuracy measurements system allowing continuous tracking of a ball and a player's movements. The simulator and the measurement system cooperate with ball launcher robots in a fully automatized fashion, allowing the simulation of successive close-to-real game situations. Simulation of any type of signals (e.g. audio, tactile) or physical environments (temperature, humidity, indoor or outdoor surfaces) can also be integrated into this system in order to increase the immersion of the individuals into this environment. The Inventive system is supported by three types of validation / quality procedures relying on technological, scientific and sports-based considerations a) the accuracy of the system b) the discriminative power of the system in measuring the cognitive – motor performance and c) the improvement of the cognitive –motor performance after specific training sessions. It can be used in sports for talents identification, training, rehabilitation, to measure the effects of specific training programs, to monitor/train the recovery of motor and cognitive skills after neurological events in disabled people, and as an immersive virtual reality game.

IPC 8 full level  
**G06F 19/00** (2018.01); **A63B 69/00** (2006.01)

CPC (source: EP US)  
**A63B 24/0021** (2013.01 - EP); **A63B 69/0053** (2013.01 - EP US); **A63B 69/0097** (2013.01 - EP); **A63B 71/022** (2013.01 - EP); **A63B 71/0619** (2013.01 - EP); **G16H 20/30** (2017.12 - EP US); **G16H 20/70** (2017.12 - EP US); **A63B 69/40** (2013.01 - EP); **A63B 2024/0025** (2013.01 - EP); **A63B 2024/0028** (2013.01 - EP); **A63B 2024/0056** (2013.01 - EP); **A63B 2063/001** (2013.01 - EP); **A63B 2071/0063** (2013.01 - EP); **A63B 2071/0625** (2013.01 - EP); **A63B 2071/0636** (2013.01 - EP); **A63B 2071/0647** (2013.01 - EP); **A63B 2071/065** (2013.01 - EP); **A63B 2102/02** (2015.10 - EP); **A63B 2214/00** (2020.08 - EP); **A63B 2220/806** (2013.01 - EP); **A63B 2243/0025** (2013.01 - EP)

Citation (search report)  
See references of WO 2017141166A1

Designated contracting state (EPC)  
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