



POINTING AND MOVING ACCESSORY

New technological solution for 3D positioning

Technological benefits

A practical technology

- There is no need to calibrate the sensors for the invention operation

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- The simultaneous use of the measurements provided by the accelerometer and the magnetometer permits to know the vectorial orientation of the mobile element without using an additional locating accessory

A precise system

- A distinction between the quasi-stationary and non-quasi-stationary regime is introduced

A robust invention

- The patented solution is based on a robust patents family widely spread throughout the world

Invention overview

The solution combines two magnetometers with an accelerometer and a gyroscope.

The use of the second magnetometer allows to avoid the disturbances of the magnetic field: TV, telephones, electronic equipment,

Potential applications

Video games

- Indoor positioning in the space applied to video game controllers and smartTV.

Versatility

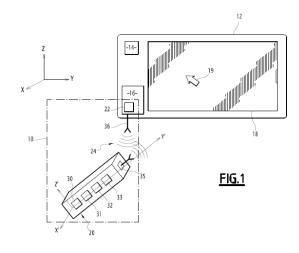
-An augmented reality functionality, virtual reality and 3D

Medecine

- Micro-camera guidance during surgical operations

Robotique

- Robot arm guidance more accurate



Commercial benefits

Low cost electronic components

-Use of general electronics (magnetometer, accelerometer, gyroscope)

SmartTV and game console

-The prototype can interact with smartTV which use a more efficient, simpler, less expensive and different technologie from the major manufacturers solutions and the current game consoles

Casque de réalité 3D

-Functioning in 3D space, virtual reality and augmented reality

TRL : 4 -5

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Applications and valorization of space technologies for industry