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LE GOUVERNEMENT  
DU GRAND-DUCHÉ DE LUXEMBOURG  
Ministère de l'Économie

11

N° de publication :

LU100856

12

**BREVET D'INVENTION**

**B1**

21

N° de dépôt: LU100856

51

Int. Cl.:  
G09B 27/08

22

Date de dépôt: 10/07/2018

30

Priorité:

72

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43

Date de mise à disposition du public: 03/12/2018

74

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Date de délivrance: 03/12/2018

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**INTELLIGENT GLOBE.**

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The present invention relates to the field of intelligent devices, and in particular to an intelligent globe. The intelligent globe includes a sphere, a touch sensing board, a shaft, a bracket, a base, a corner sensor, a pointer, a microcomputer module, and a video output module. The surface of the sphere is covered with the touch sensing board and is printed with a map. The pointer and the sphere are mounted on the bracket through the shaft, the corner sensor is disposed between the pointer and the sphere, and the bracket is mounted on the base; the signal output ends of both the touch sensing board and the corner sensor are connected to the signal input end of the microcomputer module, the signal input end of the video output module is connected with the signal output end of the microcomputer module, an electronic map is stored in the microcomputer module, and map processing software runs in the microcomputer module; the microcomputer module determines the direction of the pointer according to an angle value measured by the corner sensor, and a regional map in the direction which the pointer points to is output to a video display device through the video output module in real time.

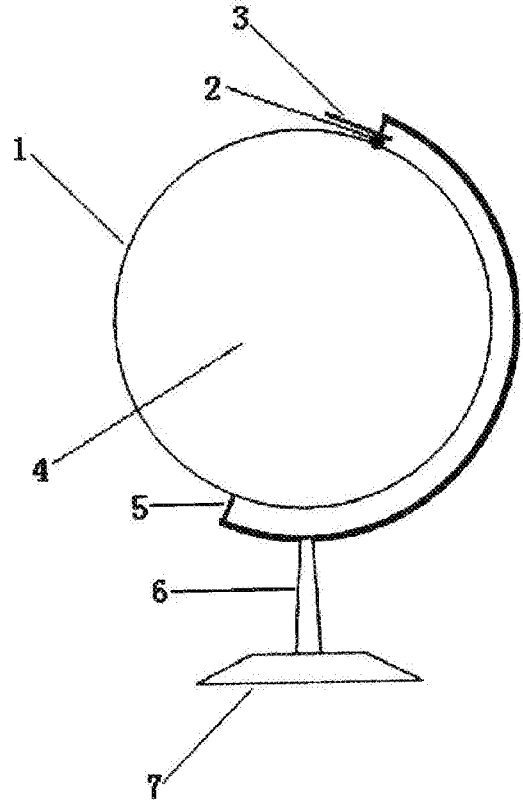


FIG. 1

## INTELLIGENT GLOBE

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**BACKGROUND**5 **Technical Field**

The present invention relates to the field of intelligent devices, and in particular to an intelligent globe.

**Related Art**

10 Existing globes display geographic information to people through maps printed on the surfaces of their spheres. Due to the limited surface area of their spheres, the globes are not detailed enough to show the details of an area. When the globes are used for teaching, it is not convenient to present clearly detailed information on the area to be explained.

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**Summary**

Against the aforementioned shortcomings in the prior art, the objective of the present invention is to provide an intelligent globe.

In order to achieve the aforementioned objective, the following technical  
20 solution is adopted according to the present invention:

The intelligent globe, including a sphere, a touch sensing board, a shaft, a bracket, a base, a corner sensor, a pointer, a microcomputer module, and a video output module. The surface of the sphere is covered with the touch sensing board and is printed with a map. The pointer and the sphere are mounted on the bracket  
25 through the shaft, the corner sensor is disposed between the pointer and the sphere, and the bracket is mounted on the base; the microcomputer module and the video output module are mounted in the base; the signal output ends of both the touch sensing board and the corner sensor are connected to the signal input end of the microcomputer module, the signal input end of the video output module is  
30 connected with the signal output end of the microcomputer module, the video

output end of the video output module is connected with the video input end of a video display device, an electronic map is stored in the microcomputer module, and map processing software runs in the microcomputer module; an angle value measured by the corner sensor determines the direction of the pointer, a regional map in the direction which the pointer points to is output to the video display device through the video output module in real time, and through the touch sensing board in touch with the surface of the sphere, a mark can be made on the map, and the map of a display area can be zoomed in and out.

By adoption of the aforementioned solution, according to the present invention, through the intelligent arrangement of the intelligent globe, not only can the operation on the intelligent globe be explained intuitively, but also details of the area needing to be explained can be presented through a large screen display device, and the display area can be marked and zoomed in and out, thereby facilitating more detailed explanation.

### **Brief Description of Drawings**

FIG. 1 is a sectional structural schematic diagram of the present invention.

### **Description of Embodiments**

Embodiments of the present invention are described in detail below by combination with accompanying drawings, but the present invention can be implemented by multiple different modes limited and covered by the claims.

As shown in FIG. 1, an intelligent globe provided by an embodiment of the present invention includes a sphere 1, a touch sensing board 4, a shaft 5, a bracket 6, a base 7, a corner sensor 8, a pointer 3, a microcomputer module, and a video output module. The surface of the sphere 1 is covered with the touch sensing board 4 and is printed with a map. The pointer 3 and the sphere 1 are mounted on the bracket 6 through the shaft 5, the corner sensor 2 is disposed between the pointer 3 and the sphere 1, and the bracket 6 is mounted on the base 7; the microcomputer module and the video output module are mounted in the base 7; the signal output

ends of both the touch sensing board 4 and the corner sensor 2 are connected to the signal input end of the microcomputer module, the signal input end of the video output module is connected with the signal output end of the microcomputer module, the video output end of the video output module is connected with the video input end of a video display device, an electronic map is stored in the microcomputer module, and map processing software runs in the microcomputer module; an angle value measured by the corner sensor 2 determines the direction of the pointer 3, and a regional map in the direction which the pointer 3 points to is output to the video display device through the video output module in real time; through the touch sensing board 4 in touch with the surface of the sphere 1, a mark can be made on the map, and the map of a display area can be zoomed in and out.

What are described above are merely preferred embodiments of the present invention and do not accordingly limit the patent scope of the present invention. Equivalent structures or equivalent process transformations which are performed by utilizing the specification and accompanying drawing contents of the present invention are directly or indirectly applied to other relevant technical fields and shall be included within the patent protection scope of the present invention in a similar way.

Revendications

1. Globe comprenant une sphère(1) , un tableau tactile (4), un arbre (5), un support (6), un socle (7), un capteur (2) d'angle, un pointeur (3), un module de micro-ordinateur, et un module de sortie vidéo, dans lequel la surface de la sphère (1) est recouverte par le tableau tactile (4) et est imprimé d'une carte ; le pointeur (3) et la sphère (1) sont montés sur le support (6) par l'intermédiaire de l'arbre (5), le capteur (2) d'angle est disposé entre le pointeur (3) et la sphère (1), et le support (6) est monté sur le socle (7) ; le module de micro-ordinateur et le module de sortie vidéo sont montés dans le socle (7) ; les extrémités de sortie de signal à la fois du tableau tactile (4) et du capteur (2) d'angle sont connectées à l'extrémité d'entrée de signal du module de micro-ordinateur, l'extrémité d'entrée de signal du module de sortie vidéo est connectée à l'extrémité de sortie de signal du module de micro-ordinateur, l'extrémité du module de sortie vidéo du module de sortie vidéo est connectée à l'extrémité d'entrée vidéo d'un dispositif d'affichage vidéo, une carte électronique est stockée dans le module de micro-ordinateur, et un logiciel de traitement de la carte fonctionne dans le module de micro-ordinateur ; une valeur d'angle mesurée par le capteur (2) d'angle détermine la direction du pointeur (3), et une carte régionale dans la direction vers laquelle pointe le pointeur (3) est émise vers le dispositif d'affichage vidéo via le module de sortie vidéo en temps réel ; par l'intermédiaire du tableau tactile (4) en contact avec la surface de la sphère (1), une marque peut être faite sur la carte, et la carte d'une zone d'affichage peut être agrandie ou réduite.

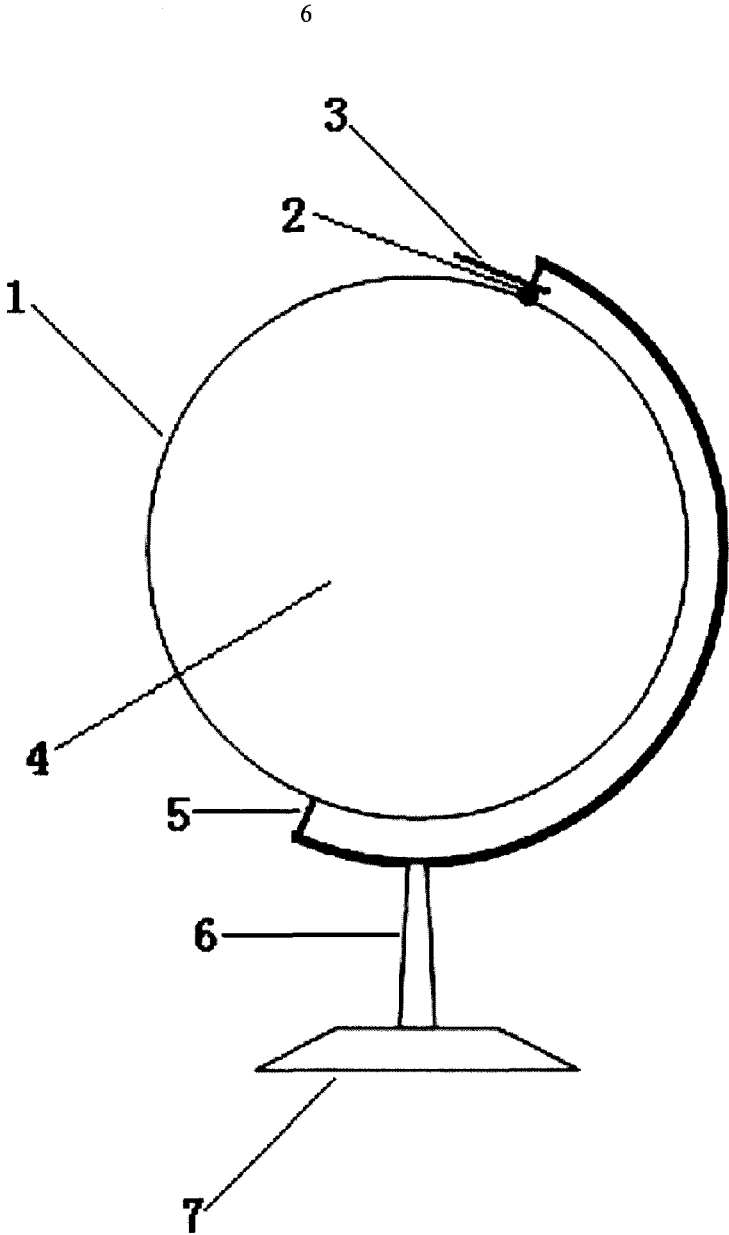


FIG. 1

**ABSTRACT****INTELLIGENT GLOBE**

5       The present invention relates to the field of intelligent devices, and in particular  
to an intelligent globe. The intelligent globe includes a sphere, a touch sensing  
board, a shaft, a bracket, a base, a corner sensor, a pointer, a microcomputer  
module, and a video output module. The surface of the sphere is covered with the  
touch sensing board and is printed with a map. The pointer and the sphere are  
10   mounted on the bracket through the shaft, the corner sensor is disposed between  
the pointer and the sphere, and the bracket is mounted on the base; the signal  
output ends of both the touch sensing board and the corner sensor are connected  
to the signal input end of the microcomputer module, the signal input end of the  
video output module is connected with the signal output end of the microcomputer  
15   module, an electronic map is stored in the microcomputer module, and map  
processing software runs in the microcomputer module; the microcomputer module  
determines the direction of the pointer according to an angle value measured by the  
corner sensor, and a regional map in the direction which the pointer points to is  
output to a video display device through the video output module in real time.

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FIG. 1