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(54) Title (EN): CAMERA, GIMBAL CAPABLE OF ADJUSTING ANGLE OF CAMERA, AND ANGLE ADJUSTING METHOD FOR CAMERA HAVING GIMBAL

(54) Title (FR): CAMÉRA, CARDAN CAPABLE DE RÉGLER UN ANGLE DE CAMÉRA, ET PROCÉDÉ DE RÉGLAGE D'ANGLE POUR CAMÉRA DOTÉE D'UN CARDAN

(54) Title (ZH): 相机、可调节相机角度的云台及云台相机的角度调节方法

(57) Abstract:

(EN): A camera, a gimbal capable of adjusting an angle of the camera, and an angle adjusting method for the camera having the gimbal. The camera transmits angle information to a processor; the camera is provided with sub-control micro controller units; the sub-control micro controller units are connected to a main control micro controller unit; the processor is connected to the main control micro controller unit; and the main control micro controller unit is connected to a control end. A three-dimensional coordinate system is built in the gimbal, and a specific point is selected; communication between the control end and the camera is established; the camera transmits image information to the control end; and a motor (13, 14) is rotated to adjust the angle of the camera. The optimal position of the camera can be found by quickly and electrically adjusting the position of the camera, so that the position adjusting time of the camera is shortened, and the working efficiency of a camera system is improved.

(FR): La présente invention concerne une caméra, un cardan capable de régler un angle de la caméra, et un procédé de réglage d'angle pour la caméra dotée du cardan. La caméra transmet des informations d'angle à un processeur ; la caméra est pourvue de sous-unités de microcontrôleur de commande ; les sous-unités de microcontrôleur de commande sont raccordées à une unité principale de microcontrôleur de commande ; le processeur est raccordé à l'unité principale de microcontrôleur de commande ; et l'unité principale de microcontrôleur de commande est raccordée à une extrémité de commande. Un système de coordonnées tridimensionnelles est intégré dans le cardan, et un point spécifique est sélectionné ; la communication entre l'extrémité de commande et la caméra est établie ; la caméra transmet des informations d'image à l'extrémité de commande ; et un moteur (13, 14) est mis en rotation pour régler l'angle de la caméra. La position optimale de la caméra peut être trouvée en ajustant rapidement et électriquement la position de la caméra, de telle sorte que le temps de réglage de position de la caméra est raccourci, et l'efficacité de travail d'un système de caméra est améliorée.

(ZH): 一种相机、可调节相机角度的云台及云台相机的角度调节方法,相机向处理器传输角度信息;相机设分控单片机;分控单片机分别连接主控单片机;处理器连接主控单片机,主控单片机连接控制端。在云台中建三维坐标系、选取特定点;建立控制端和相机的通信;相机传输图像信息至控制端;转动电机(13,14),调节相机角度;可以快速地电动调节找到相机最优的位置,大大地缩短了相机位置调节时间,提高了相机系统的工作效率。

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Declarations:

Declaration made as to the identity of the inventor (PCT Rules 4.17(i) and 51bis.1(a)(i))

Declaration made as applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate

Declaration made as applicant's entitlement, as at the international filing date, to claim the priority of the earlier application, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii))

Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America