

Title (en)

POSITION SENSING CONTROLLER AND METHOD FOR GENERATING CONTROL SIGNALS

Title (de)

STEUERUNGSVORRICHTUNG MIT POSITIONSFÜHLER UND VERFAHREN ZUR ERZEUGUNG VON STEUERSIGNALEN

Title (fr)

DISPOSITIF DE COMMANDE A DETECTEUR DE POSITION ET PROCEDE POUR GENERER DES SIGNAUX DE COMMANDE

Publication

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Application

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Abstract (en)

[origin: WO9603736A1] An improved position sensing controller (40) allows a person to precisely control the movement of a remote object or device in one or two dimensions by simply tilting the hand-held controller (40) to generating control signals. A position sensor (48a) that includes a bubble (56) in a liquid is used to determine the angular position of the controller with respect to a horizontally level plane. A light source (64) emits light that is reflected by the bubble, into two opposing photodiodes (68a, 68b). A ratiometric amplifier (80) produces a signal corresponding to the ratio of the light incident on each of the photodiodes (68a, 68b) to provide a signal corresponding to the angle, relative to a horizontally level plane, by which the controller is tilted. The controller (40) can use a diffused laser light-emitting diode to transmit signals to the controlled device.

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