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Patent Search

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Abstract:
 The present invention relates to a customized haptic control circuit for VRML object. The proposed invention is a customized haptic control (electronic circuit) designed specifically to control VRML object in real-time. For real time haptic control of VRML model MATLAB script has been used. This script provides access to Bluetooth Module. The proposed circuit comprises of 9-volt battery, 5 Volt regulator, Microcontroller (PIC 16F72/PIC 18F2250), ADXL (335/345) chip, USB to serial Cord, Bluetooth Module and PC/Laptop. Following invention is described in detail with the help of Figure 9 of sheet 5 showing hardware setup of customized haptic control for VRML object and Figure 10 of sheet 5 showing block diagram for haptic control of VRML desktop lamp.

Complete Specification

Claims:We claim:-

1. Customized haptic control circuit for VRML object which is operated via Bluetooth, having sphere sensors embedded in its arm and neck, comprises of remote unit, battery/ main supply, power supply, Wi-Fi circuit, motor, motor driver, microprocessor/ microcontroller, switches, lamp and accelerometer assemblers, characterized in that; neck and upper arm are connected by sphere sensor 1 which gives degree of freedom to rotate neck with 360°; upper arm and lower arm are connected by sphere sensor 2; lower arm in turn is connected to base by sphere sensor 3; the lamp has touch sensors 4 and 5 to switch lamp (ON/OFF).
2. Accordingly as claimed in claim 1 wherein said haptic control enables user to manipulate the object interactively in real time; once operated, the user is capable of switching between different VRML sensors with the help of selector switch; the sphere sensor action is completely manned with hand glove; which will be put on user's

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