

EXTRACT

The invention is intended to blind and partially sighted people to grasp objects targeted by a remote sensor placed in such an elastic band over the fingers on back of hand is pushed. The remote sensor is connected, in my example with six stimulus pulse or vibration pads, which are placed along the sensor effect felt on the back of the hand. The pads are mentioned, as one approaches the object, tangible ranging from wrist to fingers.

With the invention to provide a miniature camera, placed on the strap next to the sensor, designed in the same direction as the radius of the remote sensor connected to a PDA computer (palmtop) with the correct database and software, information of the intervening object is passed to an earphone.

By connecting the camera to replace or past the camera, an RFID reader (Radio Frequency Identification) to post the RFI tags can be read in objects placed, can use a PDA computer (palmtop) with the right software including voice program, information about objects through a speaker of a PDA computer (palmtop) or an earphone obtained

Tactile-grip support with object information for blind people

The invention for blind and partially sighted people relate to the seizure of any object. Also can use the touch and grip assistance obstacles avoided.

The invention via an elastic band over the fingers on the back of the hand moved. On top of the elastic band is placed a distance sensor that can scan an area such as 1 meter and accurate scanning such as a half meter. The elastic band, aside from the distance sensor, 6-pulse stimulation or vibration pads placed in operation felt on the back of the hand. The pads are mentioned, as one approaches the object, felt rising from the wrist to the fingers. The distance away from the object does shake a path on the side of the wrist and the distance close to the object (grasping distance) means the vibration on the side of the fingers. The object is to find the blind with the arm horizontal and vertical movement so that one of the six pads to vibrate and thus the distance is determined.

Between the thumb and forefinger is a switch on the elastic band. Once press means for 1 meter and press twice for a half meter and three times means pressing device. Operated by the thumb against the top of the index key.

Additionally a small camera on the elastic band positioned beside the sensor aimed in the same direction as the radius of the sensor. This camera is connected to a palmtop. Then the palm computer earphones.

If a blind scan an object and it is through the pads, the camera scans the object, and compares it to a database of objects and objects in the palm computer and displays the information found through the earpiece to the blind.

By connecting the camera to replace an RFID reader (Radio Frequency Identification) allows the blind to objects and objects that have a chip (RFID tag information of the object), information received through such a PDA (palmtop), equipped with the appropriate software (speech), pass the information through an earpiece or speaker of PDA (palmtop) itself. This allows the blind man in a shop, which is equipped with an RFID system, with the help of touch with grasping object information about the products they "scan" to hear information about the product including name, weight, price, durability, etc..

By using objects around the house with a chip (RFID tag) with information about the object, the blind, before he grabs the object with the touch-gripping support, through the RFID reader information about the object.

Conclusions

1. Device for the blind and partially sighted people to grasp objects designed and / or for gripping the object information received by a remote sensor on top of an elastic band on the back of a hand is pushed, placed. Aside from the remote sensor pads that are 6 to force felt on the skin of the back of the hand. Depending on the radius distance, trembling, these pads and have felt, ranging from the wrist to the fingers as one approaches an object. Between thumb and forefinger is a switch that the device on or off and also the radius setting of sensor can be set to for example 1 meter or 1 / 2 meter. The operation of this done by the thumb against the top side of the index to print when gripping an object does not hit the switch.
2. Device according to claim 1 with a miniature camera, located next to the remote sensor mounted on the elastic band, the image of the object compared with one obtained in a palmtop standing database of objects and found the information to an earphone.
3. Device according to claim 1 and 2 with an RFID reader (radio frequency identification) next to the remote sensor attached to the elastic band chips (RFID tags with information of the object) into objects can read from eg a PDA computer (palmtop) with The right software includes a speech and amplify the information of the object passes through a speaker of a PDA computer (palmtop) or an earphone to the visually impaired.