

State-of-the-art do not have a textile motherboard scheme incorporated into the design of the devices.

Moreover even though some devices are detachable, they are not modular and none describe the feature of being interchangeable. For instance, once the device is designed to monitor cardiac frequency, that same design is not able to monitor another parameter, such as temperature, therefore requiring the use of a completely new device.

Also absent in the state-of-the-art is the ability of the textiles to manipulate objects of interest, such as the lights of a public establishment or the interaction with a device or computer application, after selecting a, preferably, textile menu of options.

SUMMARY

According to a first aspect, a textile motherboard, is provided, that consists of at least one textile substrate layer, on which at least one textile peripheral and one interchangeable central processing unit are incorporated, wherein the at least one textile peripheral comprises regions of null conductivity and regions of maximum conductivity;

the textile motherboard additionally consists of at least one textile peripheral configured as a first logic gate interconnected to another textile peripheral configured as a second logic gate; each of the peripherals is conformed of at least one pole and one throw, and the peripherals are configured such that the central processing unit may determine which peripheral has been activated by a user.

According to a second aspect, a textile switch, is provided, that consists of at least one conductive textile substrate material and an isolating substrate material, wherein the isolating material incorporates patterns to enable regions of maximum conductivity and regions of null conductivity, incorporates at least one pole and one throw, and may be configured as a logical gate.

BRIEF DESCRIPTION OF THE INVENTION.

In order to address the abovementioned problem in the state-of-the-art, it is the object of the present invention to disclose embodiments that provide the structure of a textile motherboard (TMB) The substrate of the TMB, object of the present invention, is conformed of textile material. Furthermore, the TMB may be structured with single-layer or multiple-layer designs, incorporating perforations for layer interconnection. Layers and perforations are