Claims

[043] We claim:

1) A wearable device, comprising of:

   a surface comprising an element selected from a first conductive element, a first inductive element or combinations thereof;

   at least one arm associated with the surface;

   an internal circuitry coupled to the surface, wherein the internal circuitry comprises of:

      a micro controller unit to transmit a threshold voltage to activate at least one of the element on the surface to provide an activated member;

      a memory unit coupled to the micro controller, wherein the memory unit is configured to store the threshold voltage corresponding to the activated member; and

      at least one actuator to actuate the micro controller to transmit the threshold voltage.

2) The wearable device as of claim 1, wherein the at least one arm independently moves at least partially over the activated member at a given time in a sequential manner.

3) The wearable device as of claim 1, wherein the at least one arm moves at least partially over the activated member at a given time in a simultaneous manner.

4) The wearable device as of claim 1, wherein the memory unit further comprises a lookup table with a notification type and the threshold voltage value associated with the notification type.

5) The wearable device as of claim 1, wherein the wearable device is a time display device.

6) The wearable device as of claim 5, wherein the time display device is an analog watch, wherein the at least one arm is in first position to display time.

7) The wearable device as of claim 6, wherein the at least one arm moves at least partially over the activated member to a second position for a pre-set time and reverts to the first position to display time.

8) The wearable device as of claim 7, further comprises a time keeper module configured to reevaluate time considering a delay when the at least one arm moves from the second position to a third position.

9) A method to position at least one arm on a wearable device, wherein the wearable device comprises: a surface comprising an element selected from a first conductive element, a first inductive element or combinations thereof; at least one arm associated with the surface; an internal circuitry coupled to the surface, wherein the internal circuitry comprises of: a micro controller unit to transmit a threshold voltage to activate at least one of the element on the surface to provide an activated member; a memory unit coupled to the micro controller, wherein the memory unit stores the threshold voltage corresponding to the activated member; and at least one actuator to actuate the micro controller to transmit the threshold voltage, the method comprises the steps of:

   – receiving an actuation from the actuator by the microcontroller;

– transmission of the threshold voltage from the microcontroller to the element on the surface to provide the activated member;

– positioning of the arm at least partially above the activated member.

10) The method as of claim 9, wherein the positioning of the arm above the activated member further comprises indicating a notification, wherein the notification is selected from, telephone call, message arrival, alarm time, activity tracking and combinations thereof.

Claims

We claim:

1) A wearable device (100), comprising of:

a surface (102) comprising an element (104) selected from a first conductive element (204), a first inductive element (202) or combinations thereof;

at least one arm (106) associated with the surface (102);

an internal circuitry (108) coupled to the surface (102), wherein the internal circuitry (108) comprises of:

a micro controller unit (110) to transmit a threshold voltage to activate at least one of the elements on the surface (102) to provide an activated member, wherein the arm (106) is positioned above the activated member indicates a notification, wherein the notification is selected from, telephone call, message arrival, alarm time, activity tracking and combinations thereof;

a memory unit (112) coupled to the micro controller unit (110), wherein the memory unit (112) is configured to store the threshold voltage corresponding to the activated member, wherein the memory unit (112) including a lookup table with a notification type and the threshold voltage value associated with the notification type, wherein the lookup table provided with the preconfigured threshold voltage value and corresponding angle of arm associated with the first conductive element (204) or the first inductive element (202); and

at least one actuator (114) to actuate the micro controller unit (110) to transmit the threshold voltage, wherein the at least one actuator (114) actuates the micro controller unit (110) when the wearable device (100) is paired with a sensor device by means of a communication module and based on information received from the sensor device.

2) The wearable device (100) as claimed in claim 1, wherein the at least one arm (106) independently moves at least partially over the activated member at a given time in a sequential manner.

3) The wearable device (100) as of claim 1, wherein the at least one arm (106) moves at least partially over the activated member at a given time in a simultaneous manner.

4) The wearable device (100) as claimed in claim 1, wherein the wearable device (100) is a time display device.

5) The wearable device (100) as claimed in claim 4, wherein the time display device is an analog watch, wherein the at least one arm (106) is in first position to display time.

6) The wearable device (100) as claimed in claim 5, wherein the at least one arm (106) moves at least partially over the activated member to a second position for a pre-set time and reverts to the first position to display time.
7) The wearable device (100) as claimed in claim 6, wherein the wearable device comprises a time keeper module configured to re-evaluate time considering a delay when the at least one arm (106) moves from the second position to a third position.
8) A method (400) to position at least one arm on a wearable device, wherein the wearable device comprises:

a surface (102) comprising an element selected from a first conductive element (204), a first inductive element (202) or combinations thereof; at least one arm (106) associated with the surface (102); an internal circuitry (108) coupled to the surface (102), wherein the internal circuitry (108) comprises of: a micro controller unit (110) to transmit a threshold voltage to activate at least one of the element on the surface (102) to provide an activated member; a memory unit (112) coupled to the micro controller (110), wherein the memory unit (112) stores the threshold voltage corresponding to the activated member, and at least one actuator (114) to actuate the micro controller (110) to transmit the threshold voltage, the method (400) comprises the steps of:

- receiving an actuation from the actuator (114) by the microcontroller (110), wherein the at least one actuator (114) actuates the micro controller unit (110) when the wearable device (100) is paired with a sensor device by means of a communication module and based on information received from the sensor device;

transmitting of the threshold voltage from the microcontroller (110) to the element on the surface (102) to provide the activated member, wherein a memory unit (112) coupled to the micro controller unit (110), wherein the memory unit (112) is configured to store the threshold voltage corresponding to the activated member, wherein the memory unit (112) including a lookup table with a notification type and the threshold voltage value associated with the notification type, wherein the lookup table provided with the preconfigured threshold voltage value and corresponding angle of arm associated with the first conductive element (204) or the first inductive element (202);

positioning of the arm (106) at least partially above the activated member, wherein the positioning of the arm above the activated member is indicating a

notification, wherein the notification is selected from, telephone call, message arrival, alarm time, activity tracking and combinations thereof.