CLAIMS

1. A device for assisting navigation comprising:

a body defining a middle portion having a first end and a second end,

a handle portion at one of the first or second ends,

a holder that is removably mounted with another end of the first or second ends of the body,

a RFID device disposed within the holder, wherein the RFID device includes at least two jointed antenna structures with different flexibility, and

a communication module disposed within the holder arranged to facilitate wireless or wire transmission of navigation data.

2. The device for assisting navigation of claim 1 wherein the RFID device is arranged to read, transmit or process navigation data.

3. The device for assisting navigation of claim 2 wherein the RFID device is disposed in the holder along with a power source and at least one notification device.

4. The device for assisting navigation of claim 3 wherein the at least two jointed antenna structures comprise at least one solid antenna structure and at least one flexible antenna structure connected with the at least one solid antenna structure.

5. The device for assisting navigation of claim 3 or 4 wherein the power source is a battery, a power socket or a self - sustained power unit.

6. The device for assisting navigation of any one of claims 3 to 5 wherein the notification device is a haptics feedback generator, an aural feedback generator or a visual feedback generator.

7. The device for assisting navigation of any one of claims 3 to 6 wherein the RFID device may be configured to interact with the communication module separately from the notification device, or the RFID device may be configured to interact with both the communication module and the notification.

8. The device for assisting navigation of any one of claims 3 to 7 wherein the communication module may receive a different format of data other than the notification device's received data.

9. The device for assisting navigation of claim 8 wherein a user may connect at least one equipment with the communication module so as to interpret the different format of data external of the device for assisting navigation.

10. The device for assisting navigation of any one of claims 1 to 9 wherein the body is an elongated hollow structure.

11. The device for assisting navigation of any one of claims 1 to 10 wherein one of the first or second ends further comprises a mounting portion that mounts the holder with the body.

12. The device for assisting navigation of claim 11 wherein the mounting portion further comprises an attachment mechanism that connects with a portion of the holder.

13. The device for assisting navigation of claim 12 wherein the attachment mechanism is a lock having a resilient portion, a stopper portion, an engagement portion and an extension.

14. The device for assisting navigation of claim 1 wherein the handle portion is a layer of texturised material.

15. The device for assisting navigation of claim 1 or 14 wherein the handle portion further comprises a storage solution.

16. A method of navigating within a space distributed with RFID tags, the method comprises removably attaching a RFID reader including at least two jointed antenna structures having different flexibility with a walking assistance such as a cane, the RFID reader communicates with RFID tags and at least one notification device connecting with the RFID reader generating a signal through notification device regarding information stored on the RFID tags.

17. A method of navigating within a space distributed with RFID tags, the method comprises removing a RFID reader including at least two jointed antenna structures having different flexibility from a walking assistance such as a cane, the RFID reader communicates with RFID tags and at least one notification device connecting with the RFID reader generating a signal through notification device regarding information stored on the RFID tags.

18. A method of navigating within a space distributed with RFID tags, the method comprises removably attaching a RFID reader including at least two jointed antenna structures having different flexibility to a walking assistance apparatus wherein, the RFID reader is arranged to communicate with one or more RFID tags such that at least one communication module in communication with an external equipment is arranged to process navigation data received from the removably attached RFID reader into a human understandable format.

19. A method of navigating within a space distributed with RFID tags, the method comprises removing a removable RFID reader including at least two jointed antenna structures having different flexibility from a walking assistance apparatus and using the removed RFID reader to communicate with one or more RFID tags via an external electronic device arranged to communicate with the removable RFID reader.