

CLAIMS

1. An apparatus comprising:
 - a sensor constructed to be worn by a person and configured to sense information indicative of a direction intended by the person;
 - a processor, and
 - storage for instructions executable by the processor to:
 - determine the direction based on the information sensed by the sensor, and
 - based on the direction and a location for the person, determine a geographic location.
2. The apparatus of claim 1, wherein the sensor comprises:
 - a biopotential sensor constructed to be worn by the person and configured to sense biopotentials appearing on the person and associated with muscles controlling a body part or an appendage near the body part; and
 - a location sensor constructed to be worn by the person and configured to sense a location on the person.
3. The apparatus of claim 2, wherein the instructions in the storage are executable by the processor to:
 - detect a primitive gesture representative of an intention expressed by the person, based on the biopotentials sensed by the biopotential sensor and based on the location on the person sensed by the location sensor, and
 - in response to the primitive gesture, determine the geographic location.
4. The apparatus of claim 1, wherein the sensor comprises an eye tracking device.
5. The apparatus of claim 1, wherein the sensor comprises a location sensor constructed to be worn by the person and configured to sense a location on the person.
6. The apparatus of claim 1, wherein the sensor comprises a geomagnetic sensor.

7. The apparatus of claim 1, wherein the sensor comprises an altimeter.
8. The apparatus of claim 1, wherein the sensor comprises an encoder providing information indicating a change in position.
9. The apparatus of claim 3, wherein the biopotential sensor is configured to sense the biopotential signals on the top of the wrist.
10. The apparatus of claim 9, wherein the appendage comprises one or more fingers of a hand connected to the wrist.
11. The apparatus of claim 10, wherein the primitive gesture comprises a pose of the appendage.
12. The apparatus of claim 11, wherein the pose of the appendage comprises a pose of the hand.
13. The apparatus of claim 12, wherein the pose of the hand includes a pose of one or more fingers.
14. The apparatus of claim 12, wherein the pose of the hand includes a movement of one or more fingers.
15. The apparatus of claim 12, wherein the pose of the hand includes a pose of a single finger.
16. The apparatus of claim 12, wherein the pose of the hand includes movement of a single finger.
17. The apparatus of claim 16, wherein the single finger is the thumb.
18. The apparatus of claim 16, wherein the single finger is the index finger.

19. The apparatus of claim 12, wherein the pose of the hand includes a position of the hand relative to the wrist.
20. The apparatus of claim 3, wherein the primitive gesture comprises a finger swipe.
21. The apparatus of claim 3, wherein the primitive gesture comprises a finger lift.
22. The apparatus of claim 3, wherein the primitive gesture comprises a finger hold.
23. The apparatus of claim 2, wherein the location on the person comprises data indicative of a heading.
24. The apparatus of claim 1, wherein the processor further performs an action based on the determined geographic location.
25. The apparatus of claim 24, wherein the action comprises selecting an object based on the geographic location.
26. The apparatus of claim 25, wherein the selected object comprises an object in a three-dimensional scene.
27. The apparatus of claim 26, wherein the three-dimensional scene comprises a computer-generated three-dimensional scene.
28. The apparatus of claim 26, wherein the three-dimensional scene comprises a real-world scene.
29. The apparatus of claim 2, wherein the location sensor comprises an accelerometer, the location signals generated by the accelerometer comprising a signal indicative of direction and magnitude of acceleration of the location on the person.

30. The apparatus of claim 2, wherein the location sensor comprises a gyroscope, the location signals generated by the gyroscope comprising a signal indicative of orientation and angular velocity of the location on the person.