

Apple, Inc.

v.

Uniloc 2017 LLC

Case IPR2018-00289

(Patent 8,872,646)

Hearing Before Jennifer S. Bisk,
Charles J. Boudreau, and
Garth D. Baer

January 24, 2018

Independent Claim 1

1. A method comprising:
 - receiving motion data from a motion sensor in a device, the motion sensor sensing motion along three axes;
 - verifying whether the motion data includes one or more glitches and removing the one or more glitches from the motion data;
 - determining an idle sample value for a dominant axis of the device, the dominant axis defined as the axis with a largest effect from gravity among the three axes, the idle sample value comprising an average of accelerations over a sample period along the dominant axis recorded when the device goes to idle mode after a period of inactivity;
 - registering a motion of the device based on the motion data from the motion sensor;
 - determining whether the motion caused a change in the dominant axis; and
 - waking up the device when the motion of the device indicates the change in the dominant axis of the device, the dominant axis being the axis with the largest effect from gravity among the three axes.

Independent Claim 13

13. A mobile device comprising:

a motion sensor to sense motion along three axes and generate motion data;

a glitch corrector to determine whether the motion data includes one or more glitches and removing the one or more glitches from the motion data;

a dominant axis logic to determine an idle sample value for a dominant axis of the mobile device based on the motion data, the dominant axis defined as an axis with a largest effect from gravity among three axes, and the idle sample value comprising an average of accelerations over a sample period along the dominant axis recorded when the device goes to idle mode after a period of inactivity;

a computation logic to determine whether the motion caused a change in the dominant axis; and

a power logic to wake up the device when the motion of the device indicates a change in the dominant axis of the device, the dominant axis being the axis with the largest effect from gravity among the three axes.

Independent Claim 20

20. A system to wake up a mobile device comprising:
- a motion sensor to detect motion along three axes and generation motion data;
 - a glitch corrector to determine whether the motion data includes one or more glitches and remove the one or more glitches from the motion data;
 - a dominant axis logic to determine an idle sample value, comprising an average of accelerations over a sample period along a dominant axis, the dominant axis defined as an axis with a largest effect of gravity among the three axes; and
 - a power logic to move the device from the inactive state to an active state upon detection of a change in the dominant axis which is the axis experiencing the largest effect of gravity.

Petitioner erroneously construed “glitches” term

Petitioner’s erroneous construction for “glitches” term:

“a ‘glitch’ includes a datum that is outside of an acceptable range.”

Patent Owner’s construction for “glitches” term:

“motion data within the operational range of the motion sensor yet deemed to not fit the signature of human motion indicative of someone preparing to interface with a device.”

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