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(54) ACCELEROMETER MODULE FOR USE WITH A TOUCH SENSITIVE DEVICE

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(57) **ABSTRACT**

An accelerometer module for use with a touch sensor on a device, a method of detecting acceleration using a touch sensor, and a computer program product for receiving the touch sensor data and producing output representative of acceleration. The accelerometer module provides a device with a touch sensor, such as a mobile phone, with the ability to sense acceleration, orientation, or both. The accelerometer module may sense acceleration along a single axis or multiple axis. Sensing acceleration along three axis may be useful for producing a handheld game controller or for providing input to many other applications. The accelerometer module applies a force against a deformable member to change the contact area between the deformable member and the touch sensor, wherein the contact area is a function of the amount of applied acceleration.