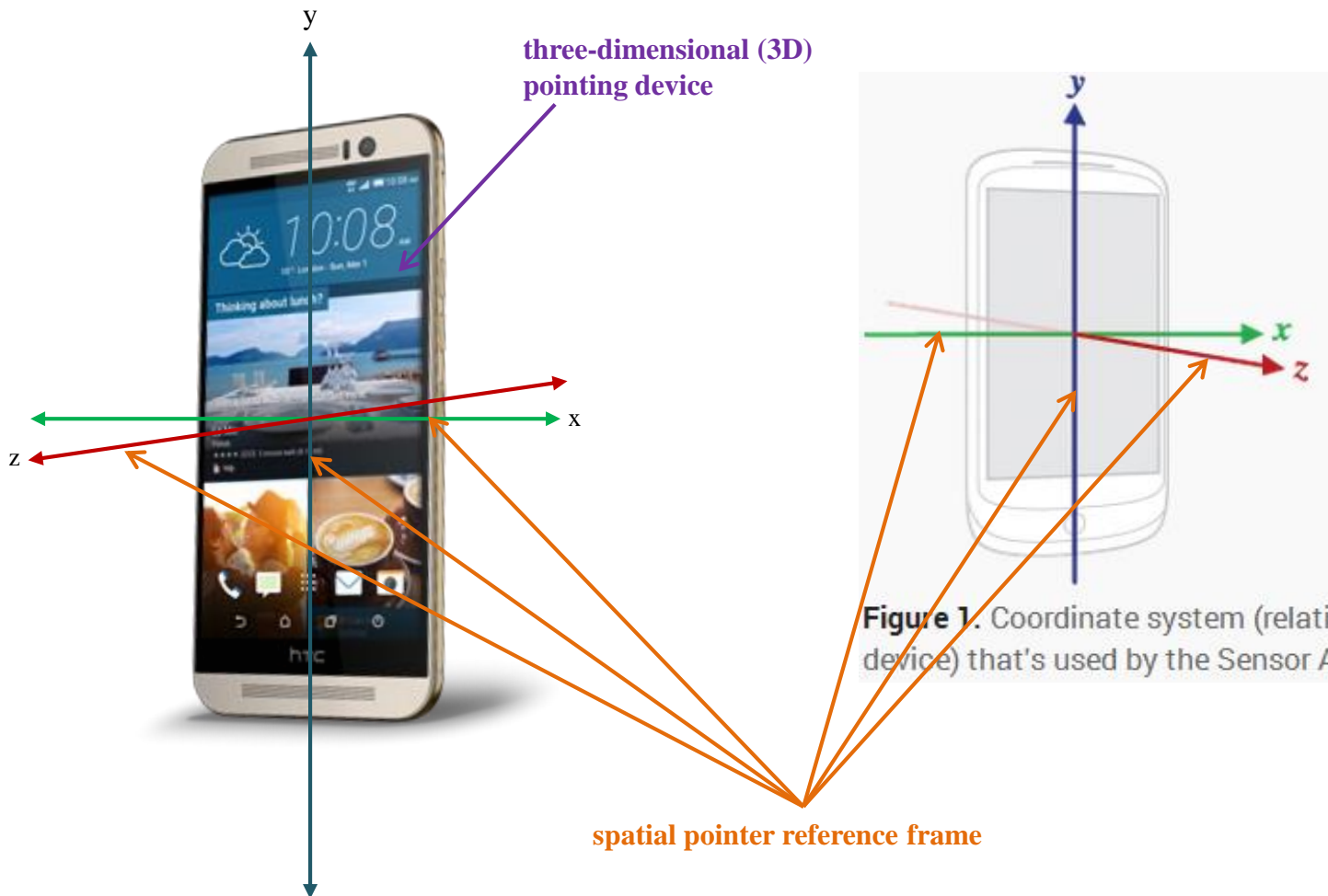

EXHIBIT A

U.S. Patent No. 8,441,438

HTC One M9

Claim 14

A method for obtaining a resulting deviation including resultant angles in a **spatial pointer reference frame** of a **three-dimensional (3D) pointing device** utilizing a six-axis motion sensor module therein and subject to movements and rotations in dynamic environments in said **spatial pointer reference frame**, comprising the steps of:



Source: <http://developer.android.com>

Claim 14

A method for obtaining a resulting deviation including resultant angles in a spatial pointer reference frame of a three-dimensional (3D) pointing device utilizing a **six-axis motion sensor module** therein and subject to movements and rotations in dynamic environments in said spatial pointer reference frame, comprising the steps of:

six-axis motion sensor module

Technical Specifications

<p>Size 144.6 x 69.7 x 9.61 mm</p> <p>CPU Speed Qualcomm® Snapdragon™ 810 octa core 64-bit 4 x 2.0GHz + 4 x 1.5GHz</p> <p>Network¹ 2G/2.5G/GSM/GPRS/EDGE - 850/900/1800/1900 MHz 3G UMTS - 850/900/1900/2100 MHz 4G LTE - FDD: Bands 1,3,5,7,8,20,28 TDD: Bands 38, 40, 41</p> <p>Connectivity NFC Bluetooth® 4.1 Wi-Fi®: 802.11 a/b/g/n/ac (2.4 & 5 GHz) DLNA® HDMI MHL 3.0 CIR 3.5 mm stereo audio jack micro-USB 2.0 (5-pin) port</p> <p>Additional Features Dual-tone metal unibody, Themes, HTC Sense™ Home, One Gallery, >Photo Editor</p>	<p>Weight 157g</p> <p>Platform Android Android™ with HTC Sense™</p> <p>Memory² ROM: 32GB / RAM: 3GB Extended memory: microSD™ up to 2TB</p> <p>Sound HTC BoomSound™ with Dolby Audio™</p> <p>Battery³ Capacity: 2840 mAh Talk time: Up to 25.4 hours for 2G 21.7 hours for 3G Standby time: Up to 391 hours for 2G 402 hours for 3G</p> <p>Multimedia Audio supported formats: Playback: .aac, .amr, .ogg, .m4a, .mid, .mp3, .wav, .wma, .flac, ac3, ec3, eac3 Recording: .aac Video supported formats: Playback: .3gp, .3g2, .mp4, .wmv, .avi, .mkv Recording: .mp4</p>	<p>Display 5.0 inch, Full HD 1080p Corning® Gorilla® Glass</p> <p>SIM card Type nano SIM</p> <p>Sensors Ambient light sensor Proximity sensor Accelerometer Compass sensor Gyro sensor Magnetic sensor Sensor Hub</p> <p>Camera Main camera: 20MP with sapphire lens, auto-focus, BSI sensor, f/2.2, 27.8mm lens, 4K video recording Front camera: HTC UltraPixel™, BSI sensor, f/2.0, 26.8mm lens, 1080p video recording</p>
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Source: <http://www.htc.com/us/smartphones/htc-one-m9/buy-b/#!carrier=spr&color=silver>

Claim 14

obtaining a **previous state** of the six-axis motion sensor module; wherein the **previous state** includes an initial-value set with **previous angular velocities** gained from the motion sensor signals of the six-axis motion sensor module at a previous

The previous state is obtained through an update program that includes a predict() function and an update() function. The predict() and update() functions are used to update the global variable x0 based on x0 (the **previous state**) associated with **previous angular velocities** w gained at a previous time T-1 to obtain an updated state x0. The updated state x0 becomes the previous state x0 at time T (the next iteration) of the update program to obtain the updated state x0 at time T.

```
430 void Fusion::predict(const vec3_t& w, float dT)
431     const vec4_t q = x0; ← previous state
485     x0 = 0*q;
```

```
495 void Fusion::update(const vec3_t& z, const vec3_t& Bi, float dT)
496     vec4_t q(x0);
```

```
529     const vec3_t e(z - Bb);
530     const vec3_t dq(K[0]*e);
531
532     q += getF(q)*(0.5f*dq);
533     x0 = normalize_quat(q);
```

next iteration

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