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(54) **Title:** SYSTEM AND METHOD FOR BODY MOVEMENT DETECTION

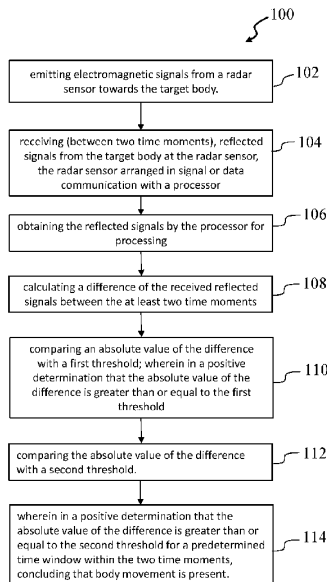


FIG. 1

(57) **Abstract:** Aspects concern a method for detecting body movement of a target body, the method comprising: emitting electromagnetic signals from a radar sensor towards the target body; receiving reflected signals from the target body at the radar sensor, the radar sensor arranged in data or signal communication with a processor; processing, by the processor, the received reflected signals, wherein the processing comprises: calculating a difference of the received reflected signals between two time moments; comparing an absolute value of the difference with a first threshold; wherein in a positive determination that the absolute value of the difference is greater than or equal to the first threshold; comparing the absolute value of the difference with a second threshold; wherein in a positive determination that the absolute value of the difference is greater than or equal to the second threshold for a predetermined time window within the two time moments, concluding that body movement is present.

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