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(54) **IDENTIFYING A TYPE OF MOTION OF AN OBJECT**

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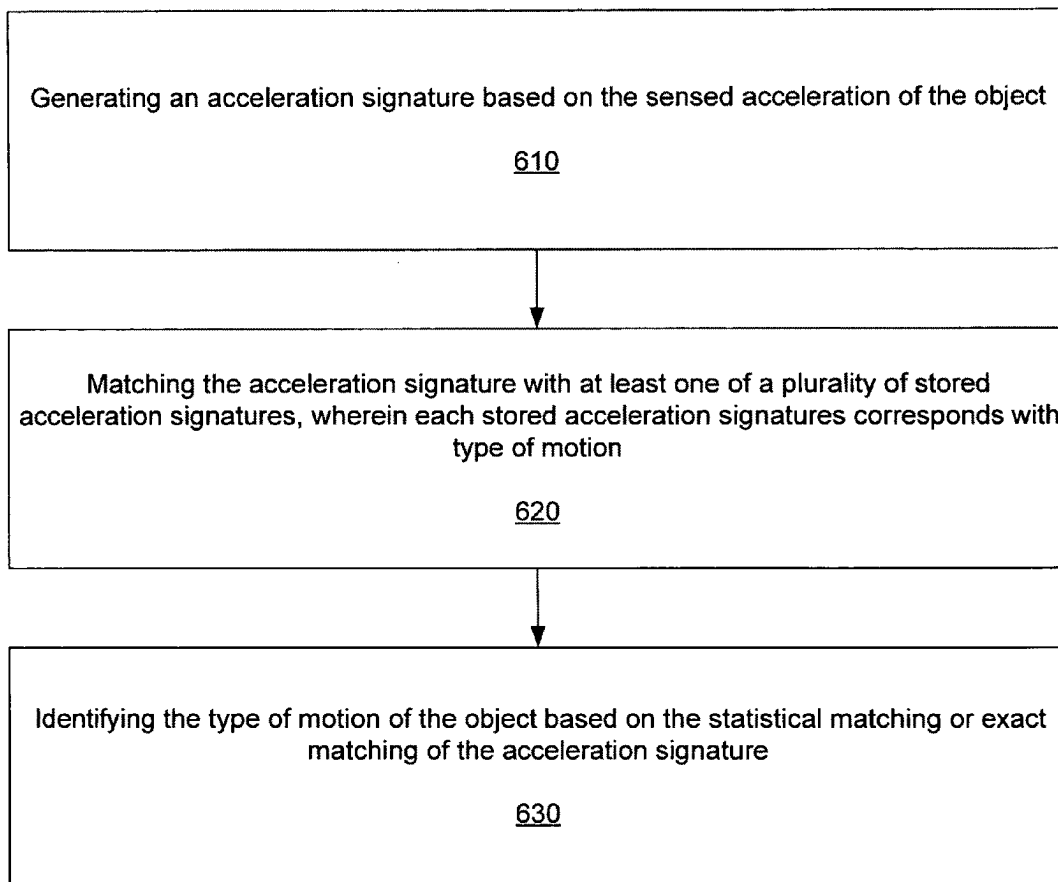
(57) **ABSTRACT**

A method of identifying a type of motion of an animate or inanimate object is disclosed. The method includes generating an acceleration signature based on the sensed acceleration of the object. The acceleration signature is matched with at least one of a plurality of stored acceleration signatures, wherein each stored acceleration signatures corresponds with type of motion. The type of motion of the object is identified based on the statistical matching or exact matching of the acceleration signature.

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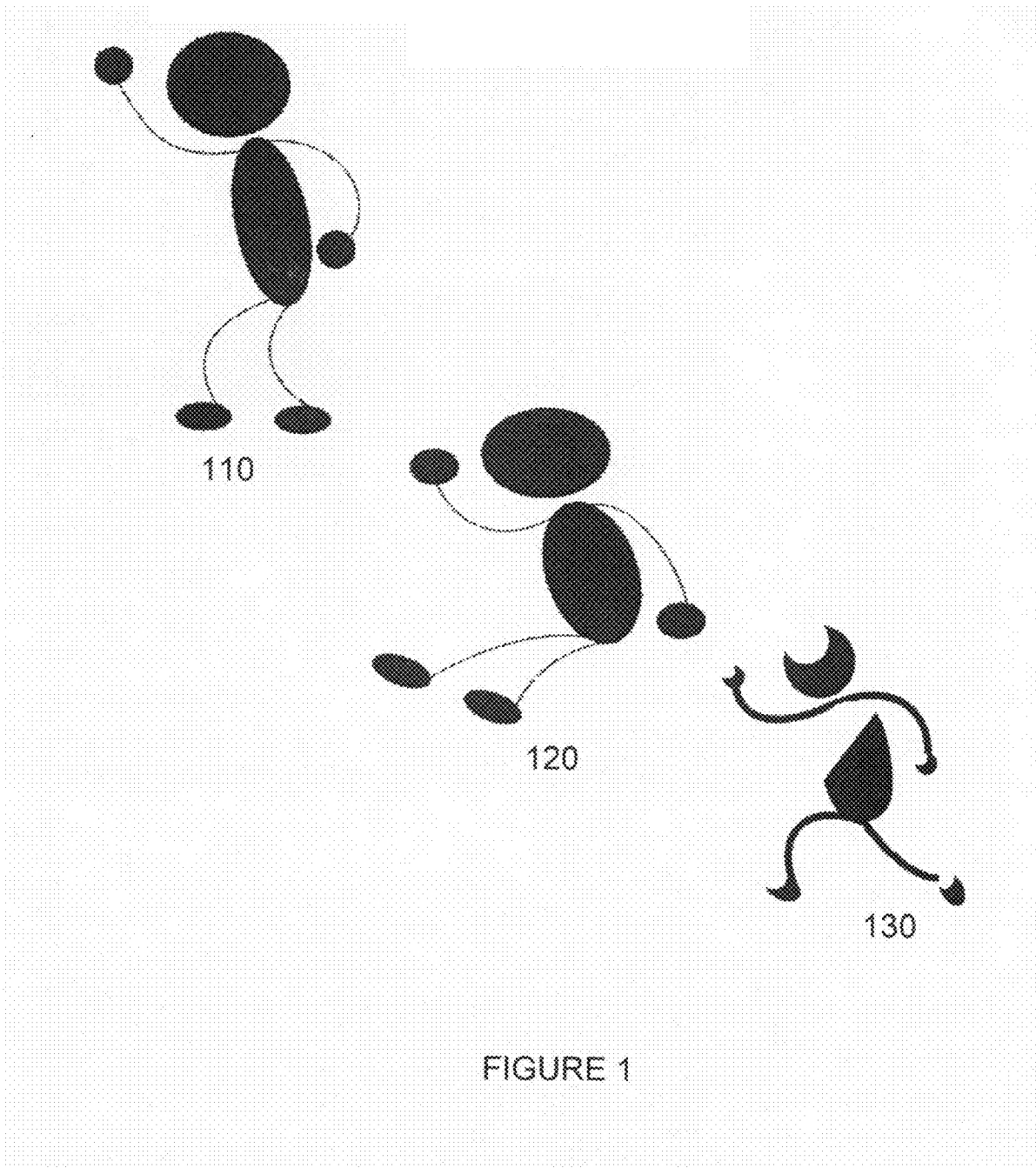


FIGURE 1

Slow Falling and lying down summersault

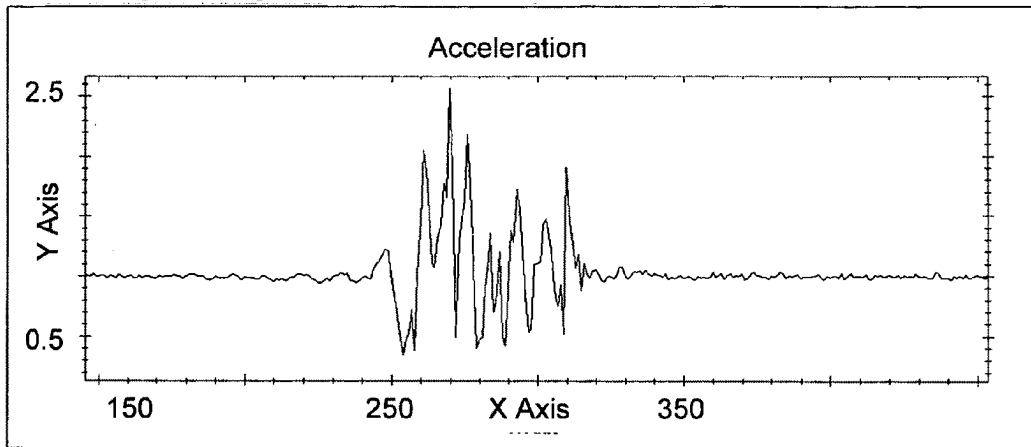


FIGURE 2A

Slipping and falling on back on a bouncy surface (air mattress)

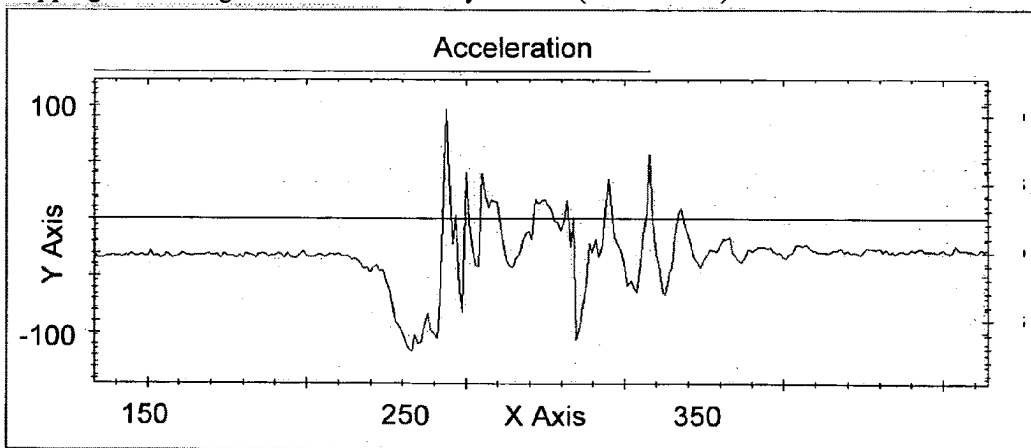


FIGURE 2B

Fall on face with knees flexed

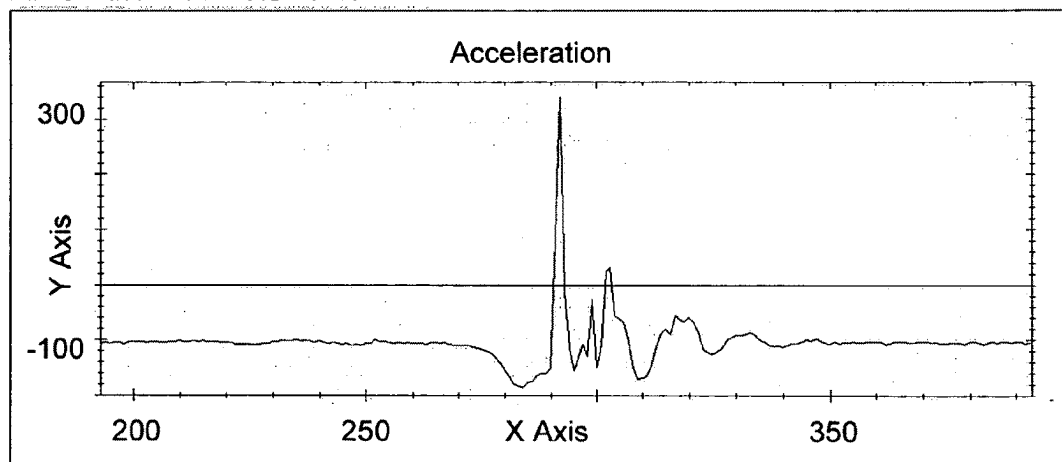


FIGURE 2C

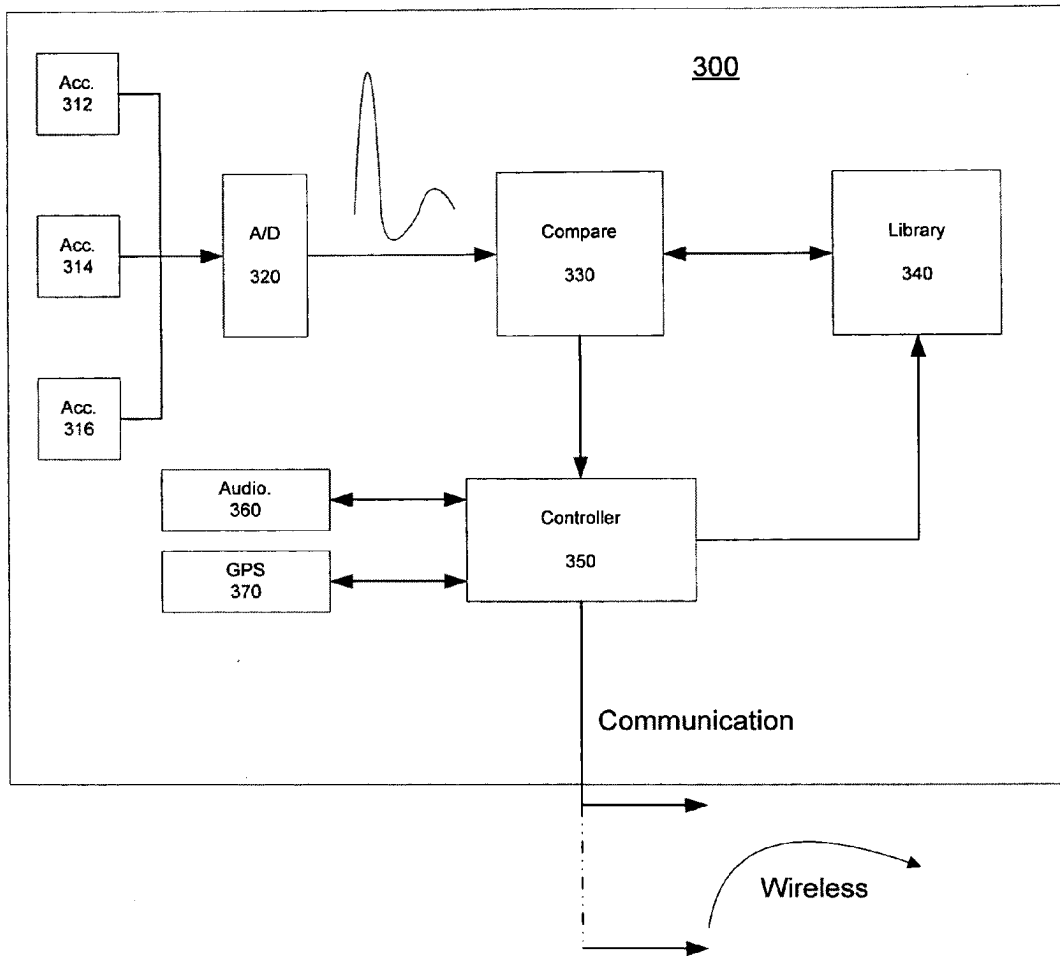


FIGURE 3

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