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

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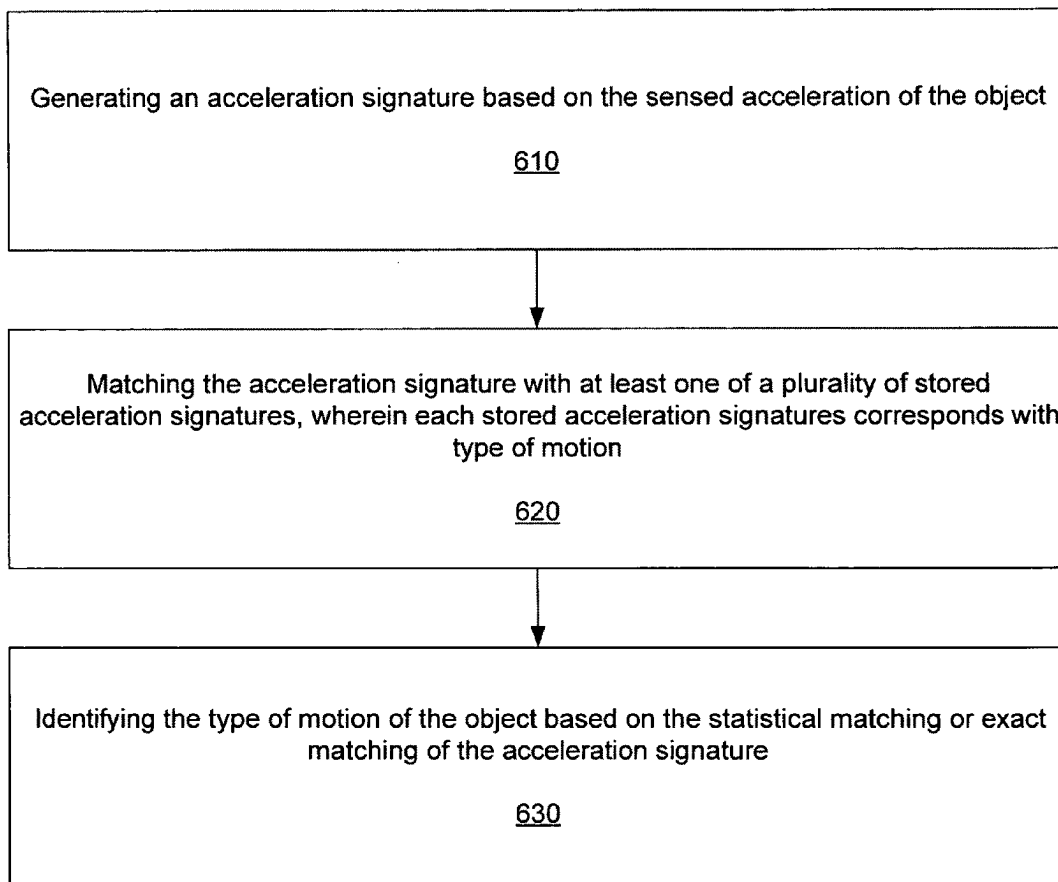(22) Filed: **Sep. 15, 2009**

(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.

Generating an acceleration signature based on the sensed acceleration of the object

610

Matching the acceleration signature with at least one of a plurality of stored acceleration signatures, wherein each stored acceleration signatures corresponds with type of motion

620

Identifying the type of motion of the object based on the statistical matching or exact matching of the acceleration signature
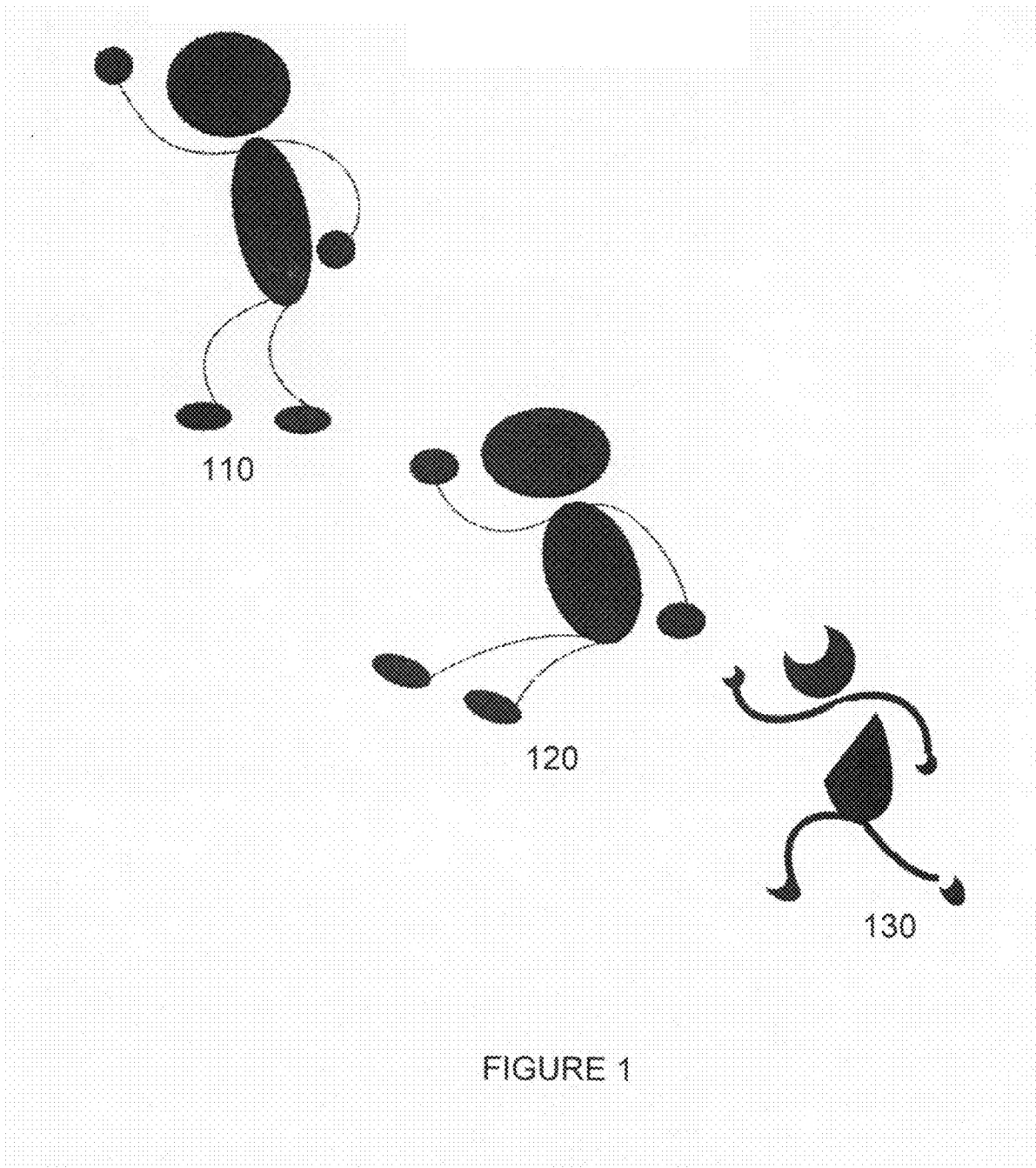
630

110

120

130

FIGURE 1
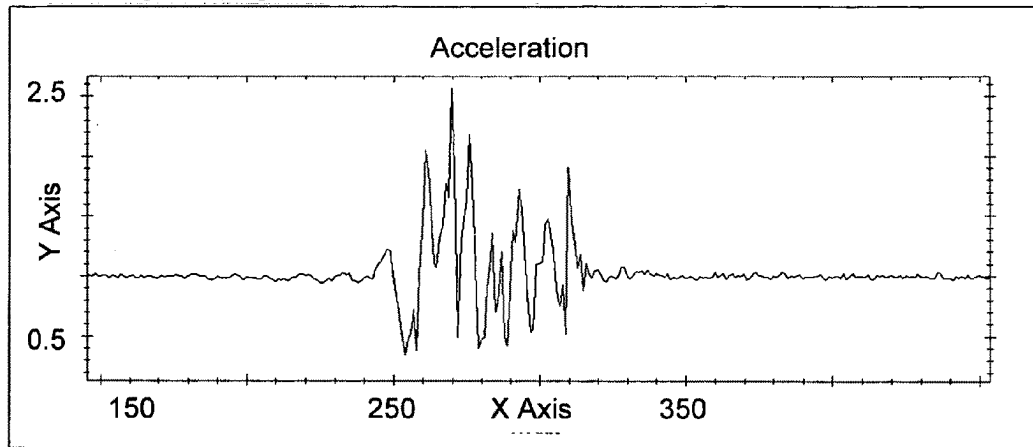
Slow Falling and lying down summersault

FIGURE 2A

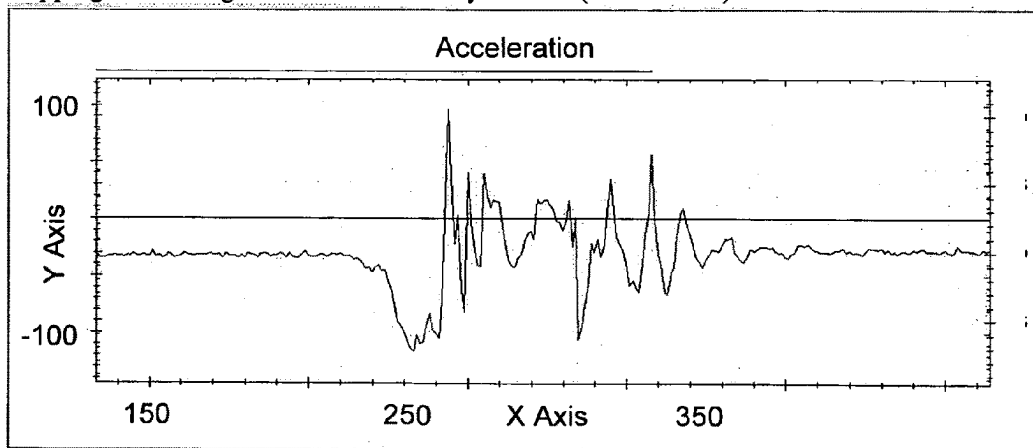Slipping and falling on back on a bouncy surface (air mattress)
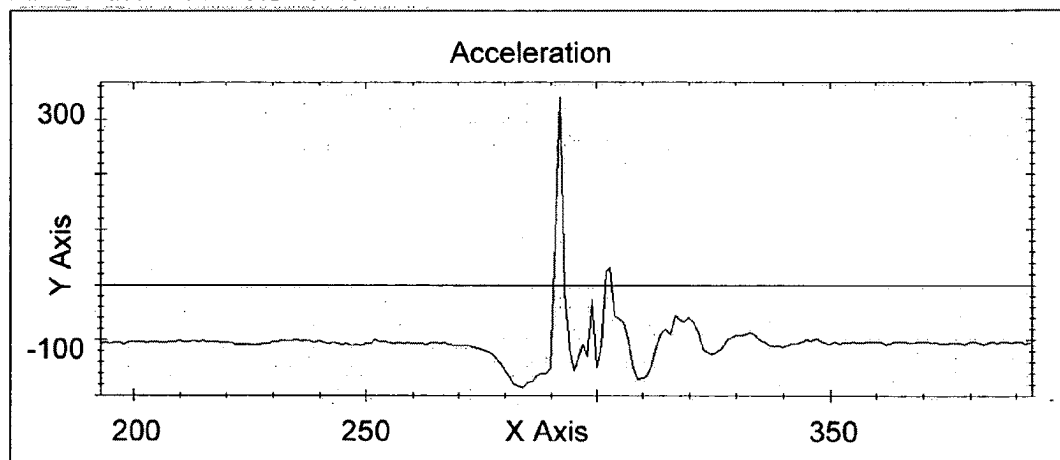

FIGURE 2B

Fall on face with knees flexed

FIGURE 2C

FIGURE 3

DOCKET ALARM
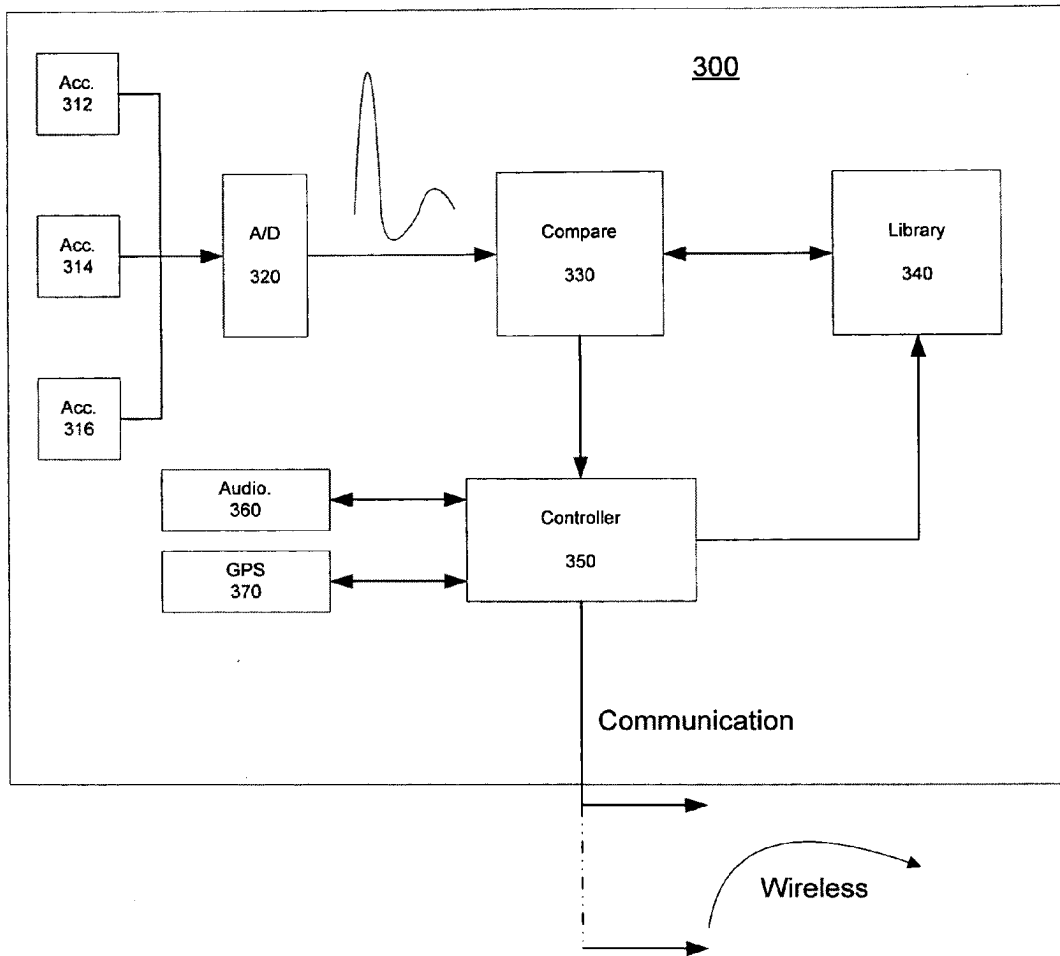
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