

## Description Of The Drawings

The following description of various specific components is exemplary in nature and is in no way intended to limit the scope of claims made. The intent of the following description is to provide a more comprehensive understanding while staying within the scope of the claims. This disclosure is intended to encompass all materials and method steps specifically described herein.

Provided within FIG. 1 is a system for sensing and reporting a collision event between a person or object and another person or object based on a predetermined angular velocity threshold. The sensor module 1 is connected to a communication device via Bluetooth Low Energy (BLE), continuously feeding raw accelerometer data. As the communication device receives accelerometer data in real time, it compares it against a preset angular velocity threshold for both the independent sensor and the accelerometer built into the communication device, which indicates a high probability of a collision to the object and/or wearer 2. Once said threshold has been reached, a dialogue is programmatically initiated between the communication device and a third party cloud-based server system 3. From the server system, a group of preprogrammed responses are sent out to emergency contacts 4 that have been pre-established by the user.

Provided within FIG. 2 is the signal path from sensor to communication with predetermined emergency contacts. A sensor 5 that continually monitors accelerometer

data of angular velocity (x axis), angular acceleration (y axis), and angular velocity which is perpendicular to the rotational plane (z axis) while utilizing a Bluetooth Low Energy (BLE) connection to a communication device **6**. Said communication device is interpreting the raw analog accelerometer data received from the sensor and its own independent accelerometer built in, and compares it against a pre-established angular velocity threshold which indicates that there is a higher probability that the user or object may have been in a collision. This communication device simultaneously utilizes Global Positioning System (GPS) to identify the location of itself throughout the entire course of use **6**. Once angular velocity threshold has been met, a dialogue is programmatically initiated between the communication device and a third party cloud-based server system **7**. From the server system, a group of preprogrammed responses are sent out to emergency contacts **8** that have been pre-established by the user.