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- (54) **Title: A SENSOR DEVICE**

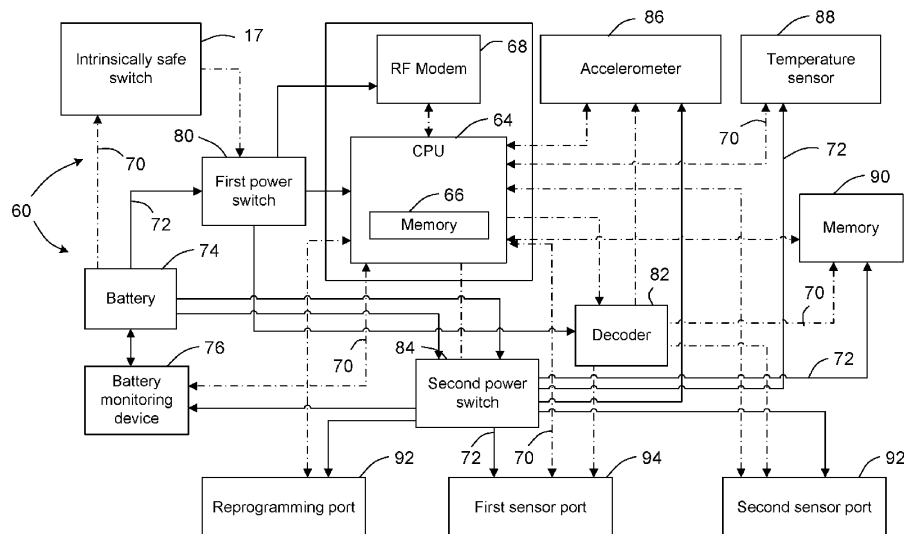


Fig. 4

(57) **Abstract:** A sensor device is disclosed that comprises a sensor arranged to produce time domain data representative of a sensed time dependent characteristic adjacent the sensor, and a signal processing component, the signal processing component arranged to use the time domain data to produce frequency domain data indicative of frequency components present in the time domain data. The sensor device also includes a data transmission component arranged to transmit at least a portion of the frequency domain data. The sensor device is arranged to select a subset of frequency domain data corresponding to a defined number of highest peaks in the frequency domain data and to transmit the selected subset of frequency domain data.

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