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(54) **LOW POWER MOTION DETECTOR**

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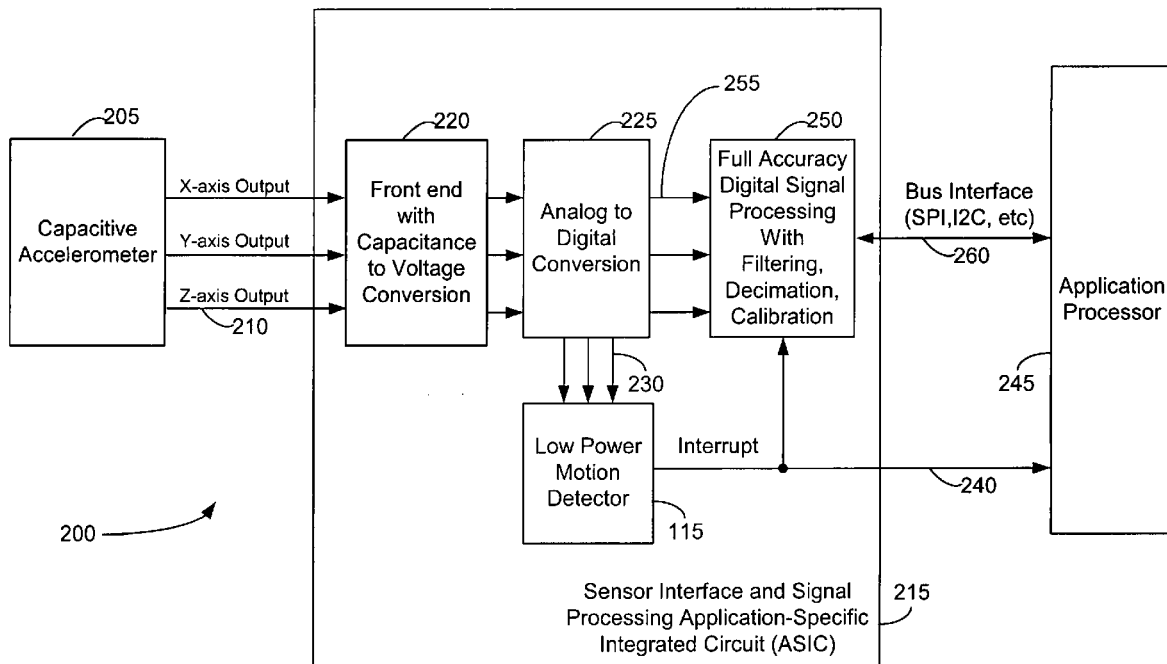
(57) **ABSTRACT**

An energy-efficient acceleration measurement system is presented. The system includes an accelerometer, responsive to acceleration of the system, for providing an accelerometer output signal having a magnitude indicative of at least one component of the acceleration. A motion detector is responsive to the accelerometer output signal, and provides a processor interrupt signal, but only if the magnitude of acceleration reaches a threshold. The processor, responsive to the processor interrupt signal, measures the acceleration with higher accuracy than the motion detector is capable of, but in a way that consumes more power than was needed by the motion detector.

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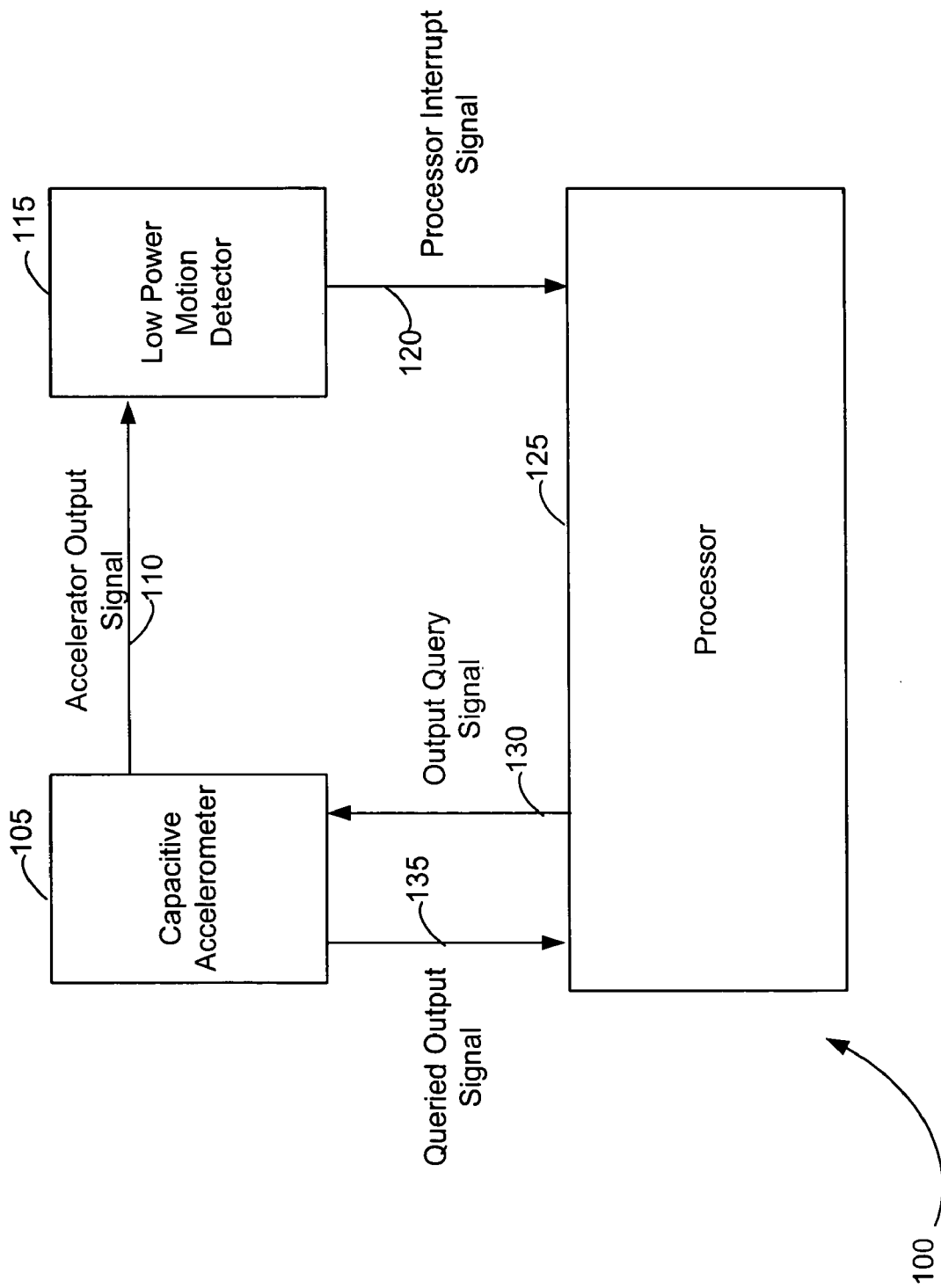


FIG. 1

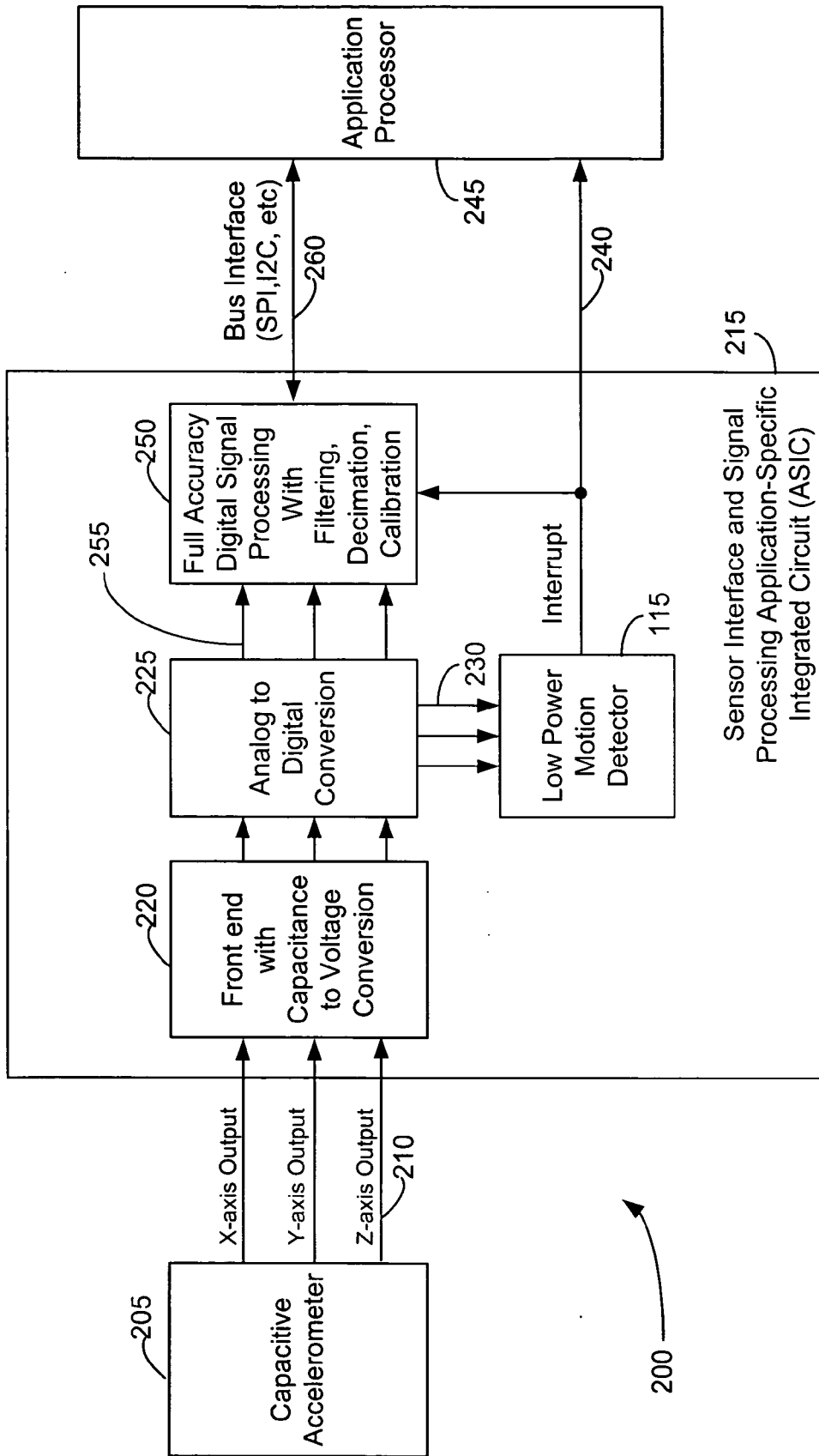


FIG. 2

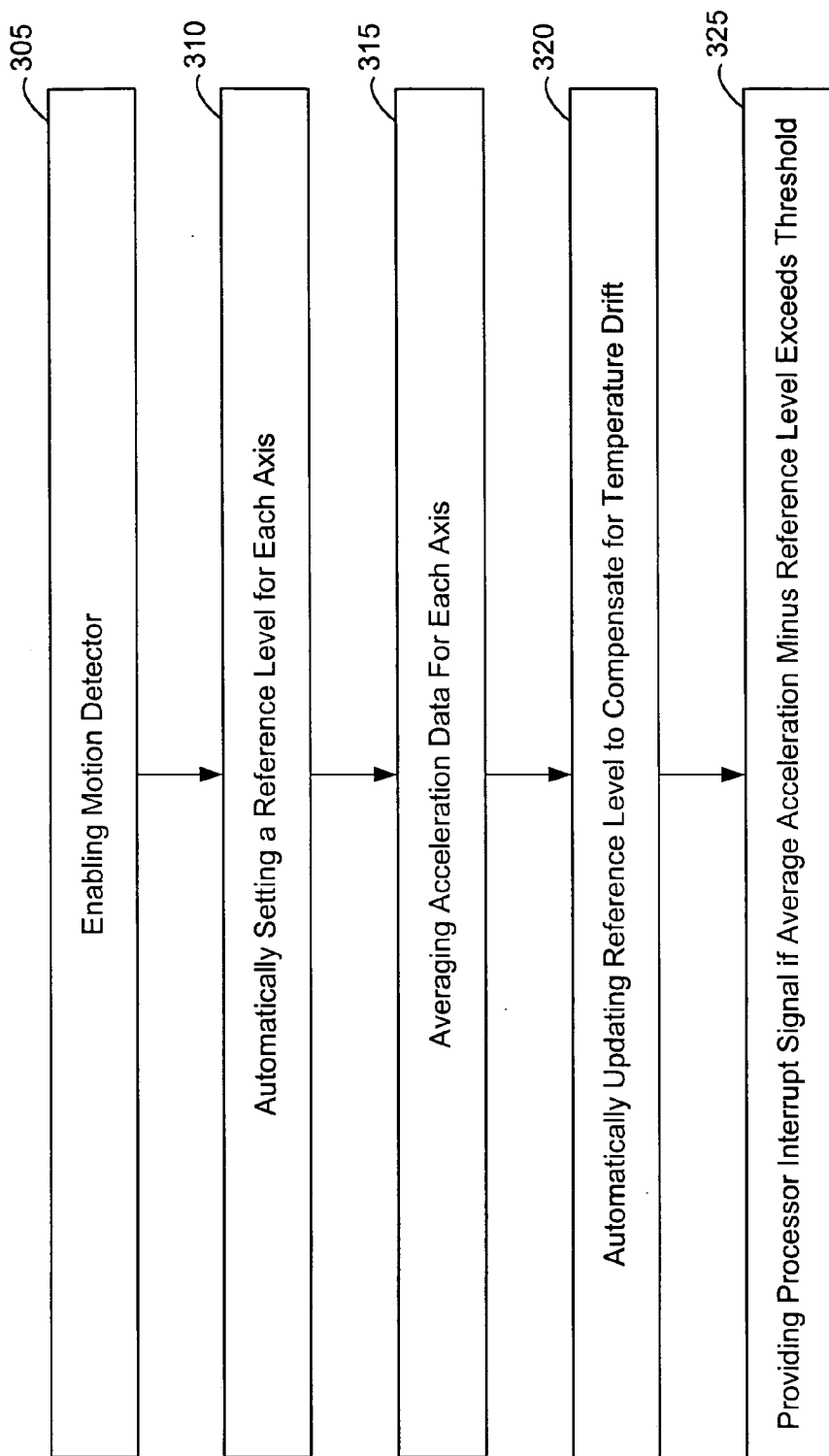


FIG. 3

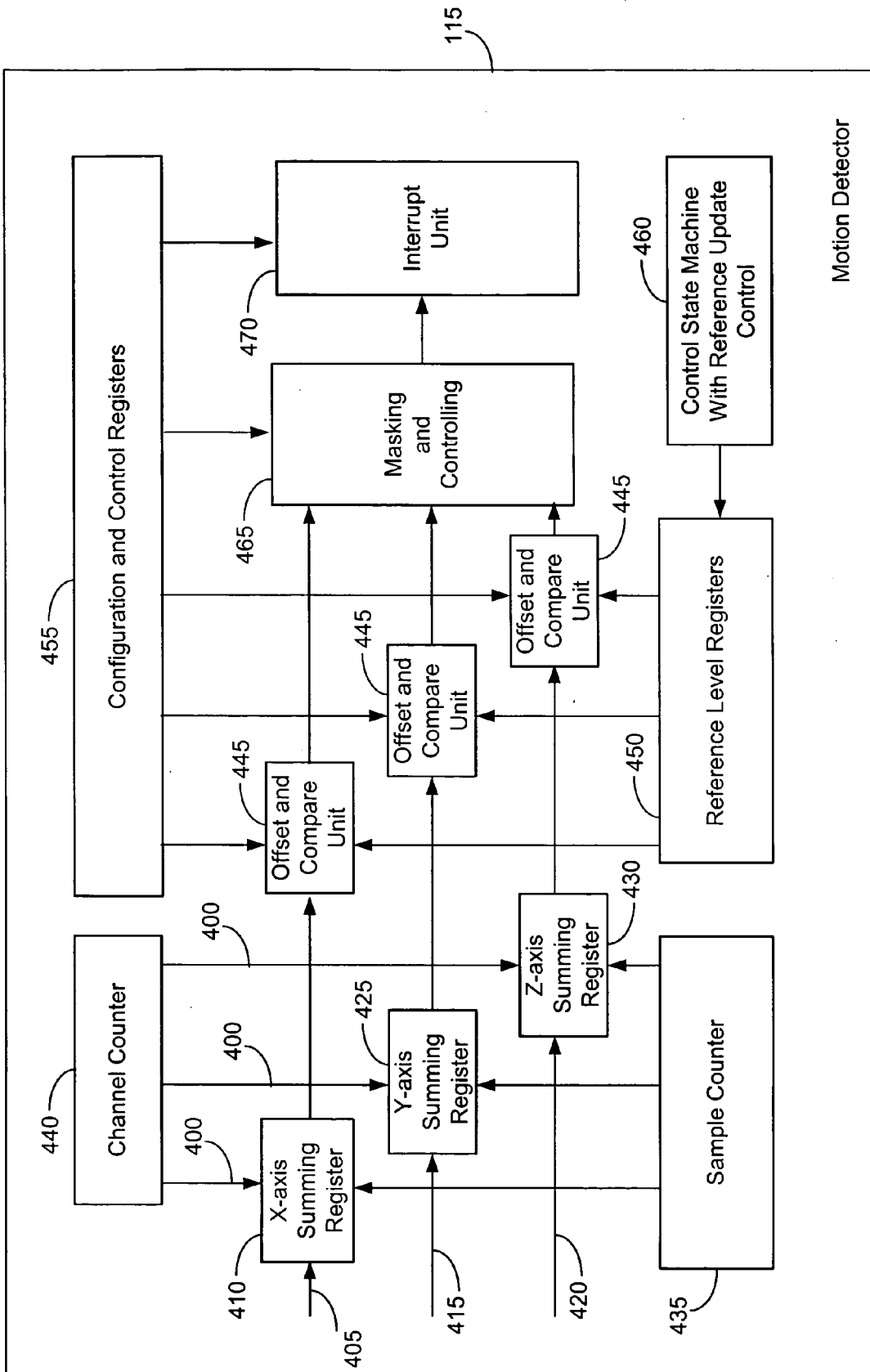


FIG. 4

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