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(54) **LOW POWER MOTION DETECTOR**

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(76) Inventors: **Juha Rakkola**, Espoo (FI); **Jukka Salminen**, Espoo (FI); **Kimmo Koli**, Helsinki (FI); **Teemu Salo**, Klaukkala (FI)

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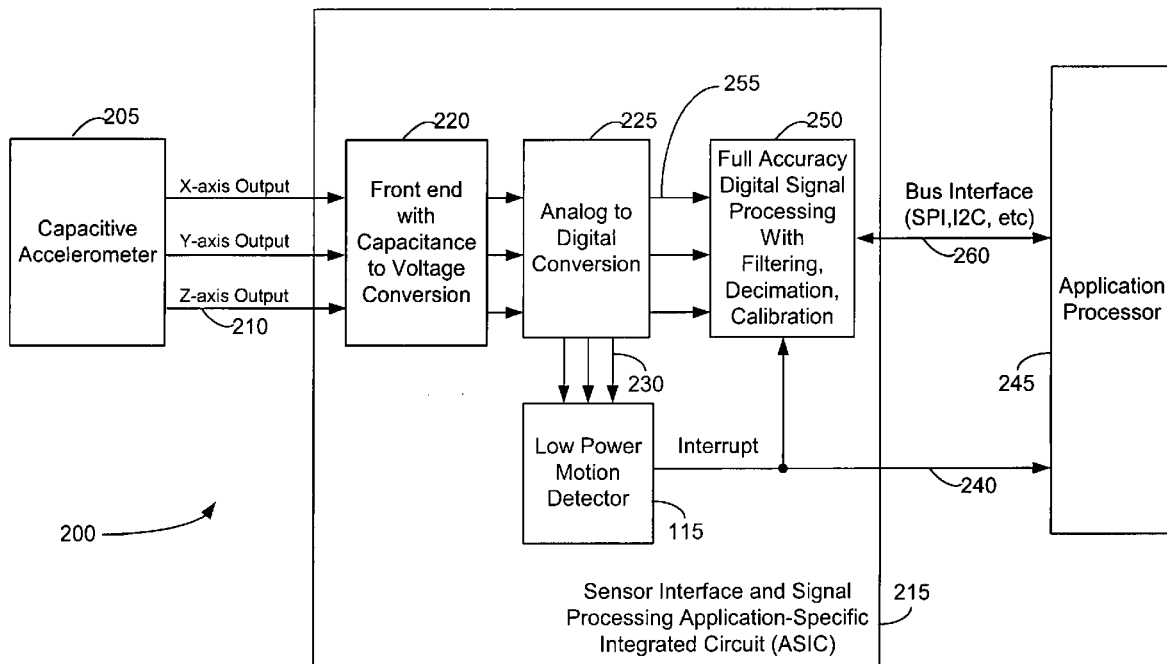
(57) **ABSTRACT**

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.

Correspondence Address:  
**WARE FRESSOLA VAN DER SLUYS & ADOLPHSON, LLP**  
**BRADFORD GREEN, BUILDING 5**  
**755 MAIN STREET, P O BOX 224**  
**MONROE, CT 06468 (US)**

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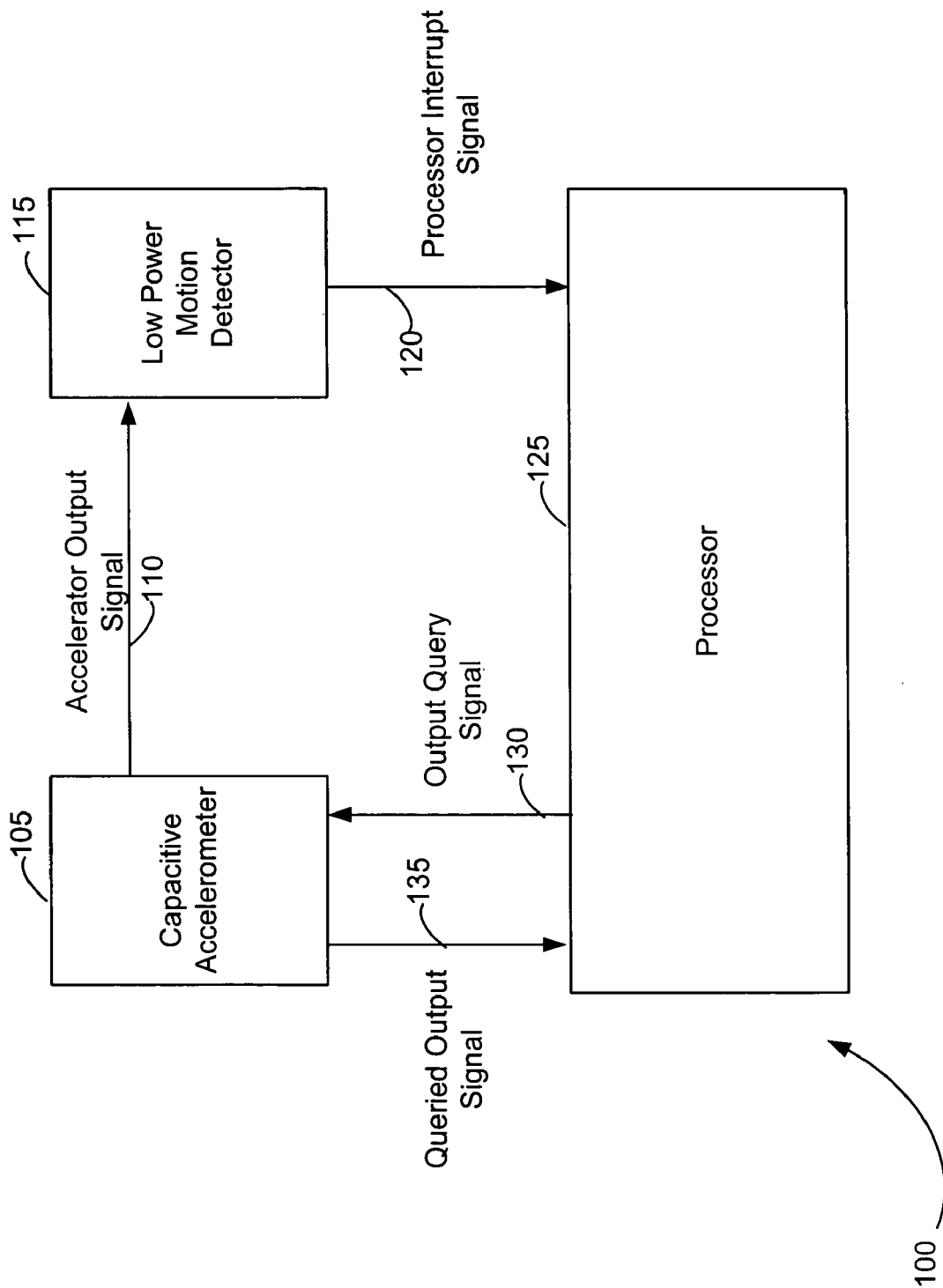


FIG. 1

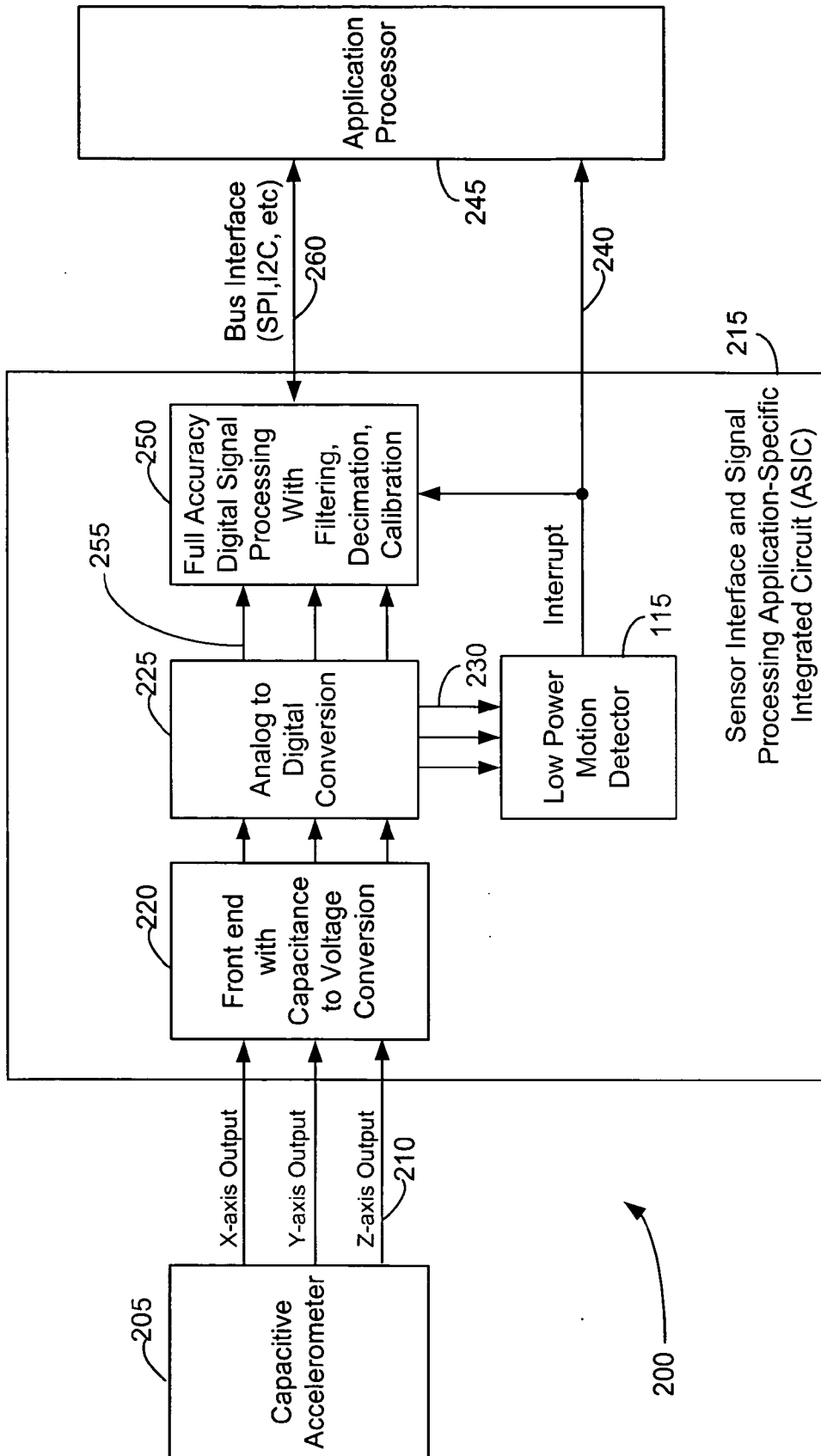


FIG. 2

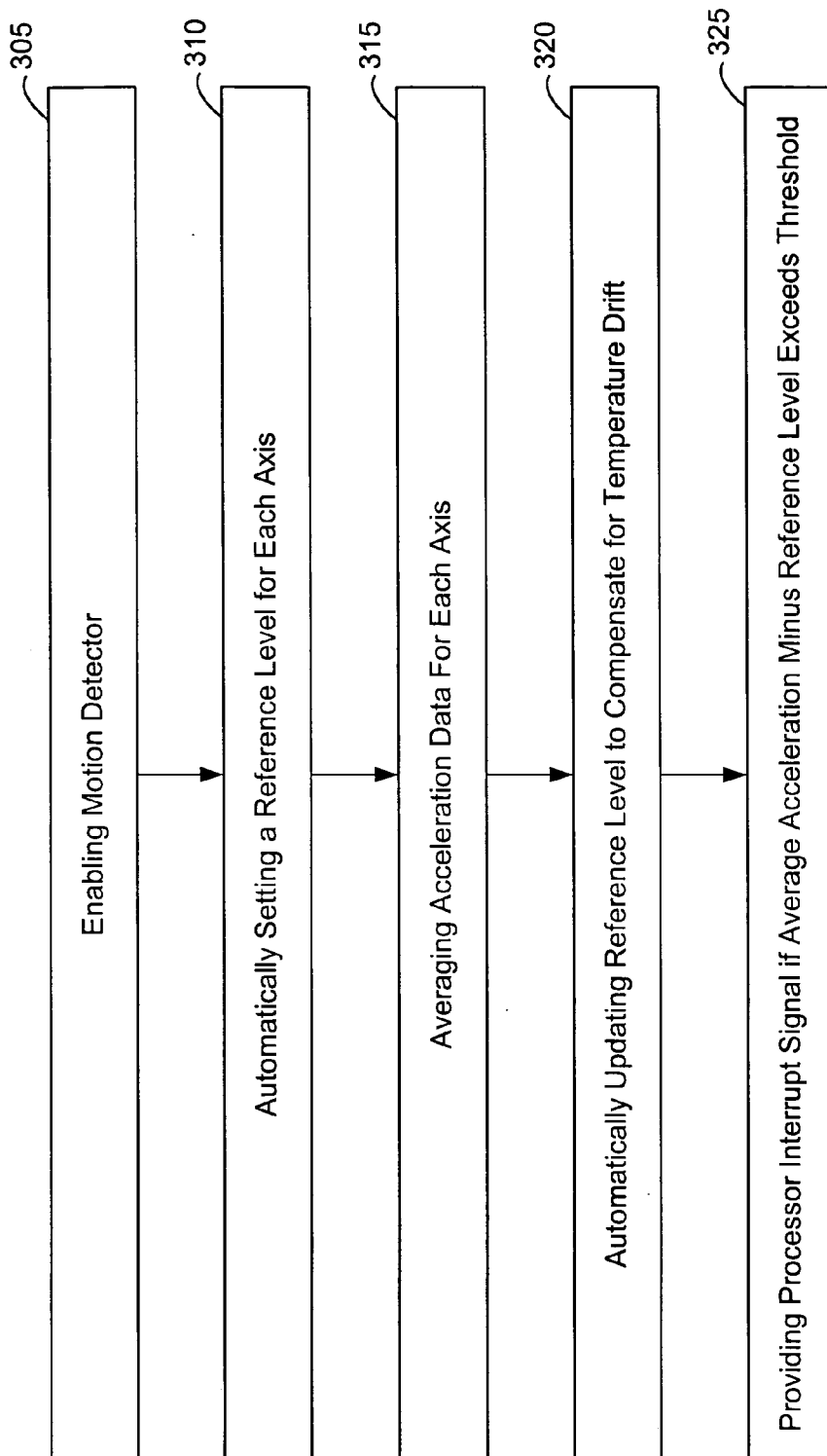


FIG. 3

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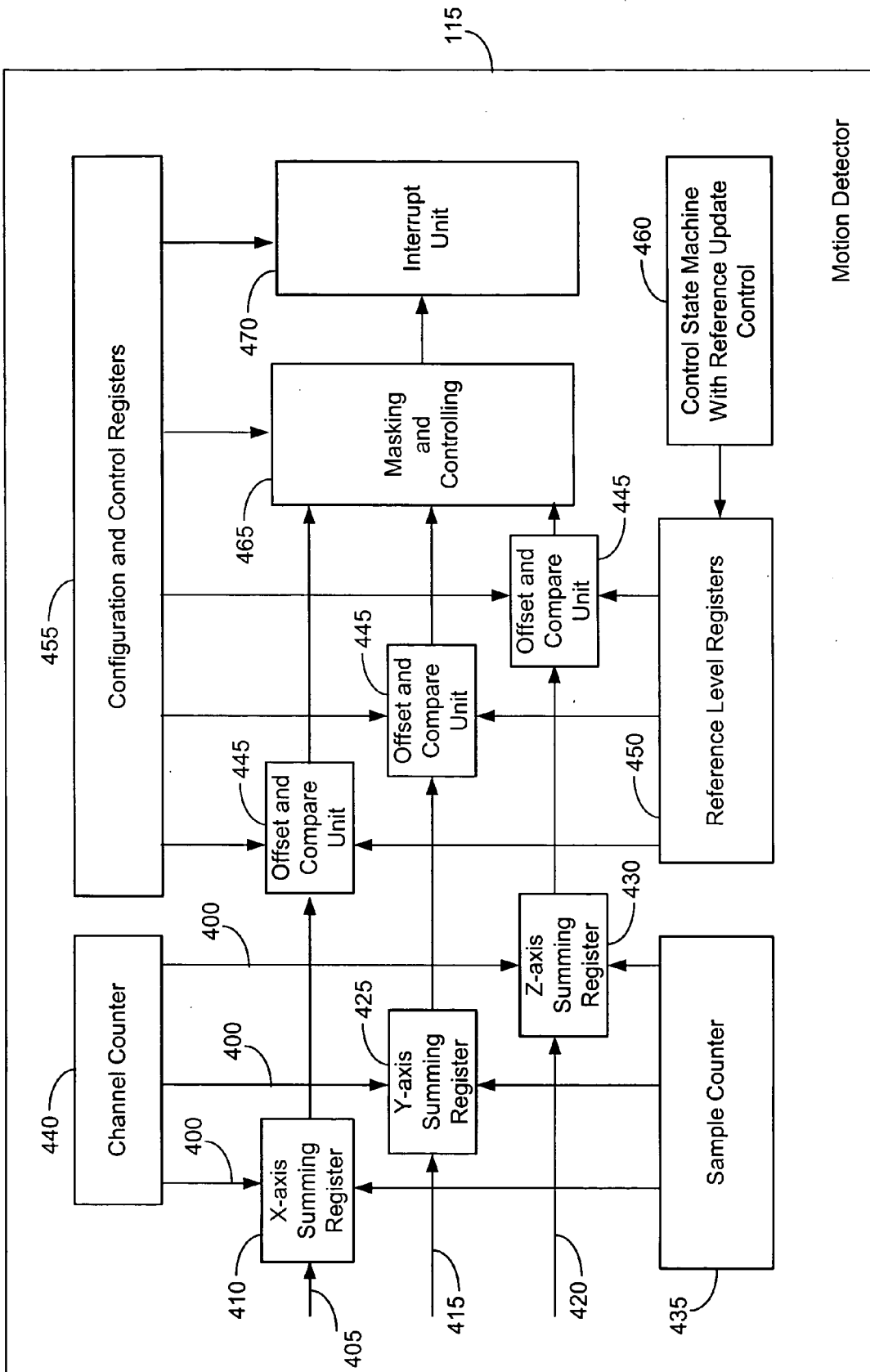


FIG. 4

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