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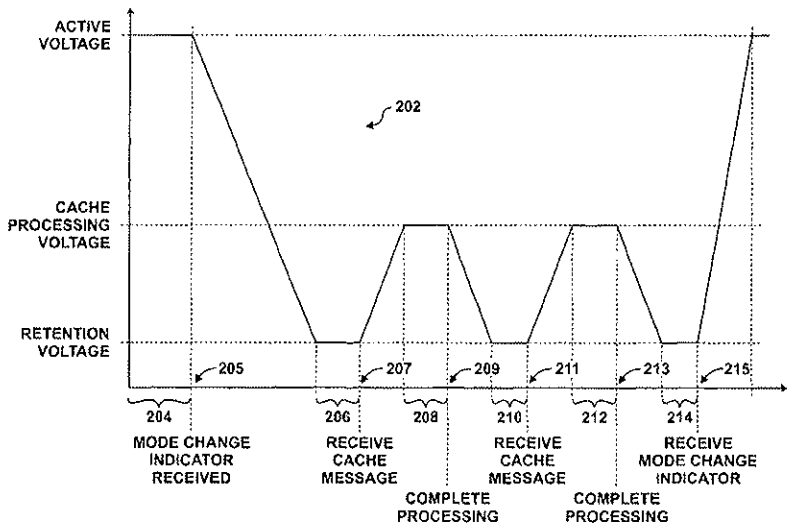
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(54) Title: DATA PROCESSING DEVICE WITH LOW-POWER CACHE ACCESS MODE

FIG. 2



(57) Abstract: A processor can operate in three different modes. In an active mode, a first voltage is provided to the processor, where the first voltage is sufficient to allow the processor to execute instructions (402). In a low-power mode, a retention voltage is provided to the processor (408). The processor consumes less power in the retention mode than in the active mode. In addition, the processor can operate in a third mode, where a voltage is provided to the processor sufficient to allow the processor to process cache messages, such as coherency messages, but not execute other normal operations or perform normal operations at a very low speed relative to their performance in the active mode (412).

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