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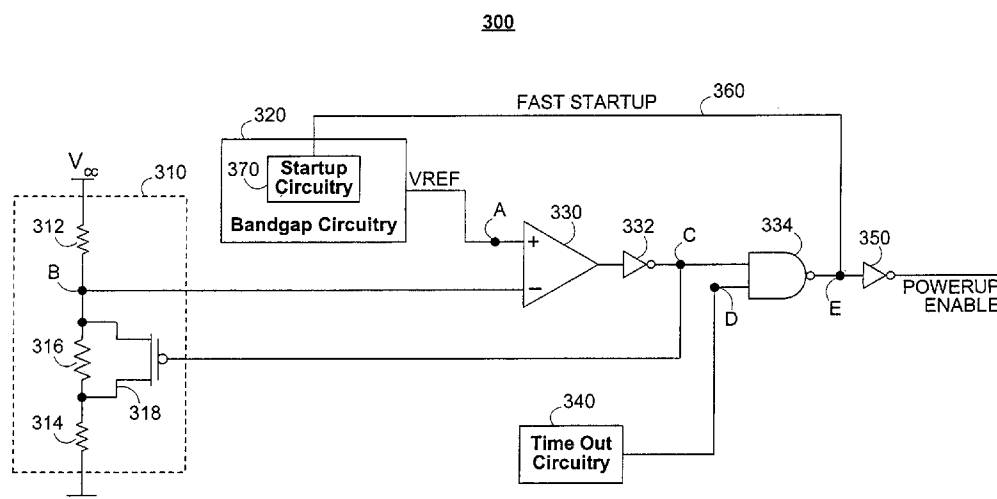
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(54) **Title:** POWER SUPPLY VOLTAGE DETECTION CIRCUITRY AND METHODS FOR USE OF THE SAME

(57) **Abstract:** Power detection circuitry that provides a substantially constant trip-point is provided. The circuitry is immune to temperature and process variations, thus preventing premature or delayed enablement of utilization circuitry (e.g., memory). In addition, the trip-point remains constant during both slow and fast power up and power down conditions. This may be accomplished with the use of bandgap reference circuitry that provides a stable bandgap reference voltage when operating in its stable operating region. The bandgap circuitry operates in conjunction with startup circuitry, which enables the bandgap circuitry to operate in its non-stable operating region. When in the non-stable region, the bandgap circuitry provides a source voltage as the reference voltage until the source voltage begins to approach the bandgap voltage, at which point the bandgap circuitry provides the stable bandgap reference voltage as the reference voltage.

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