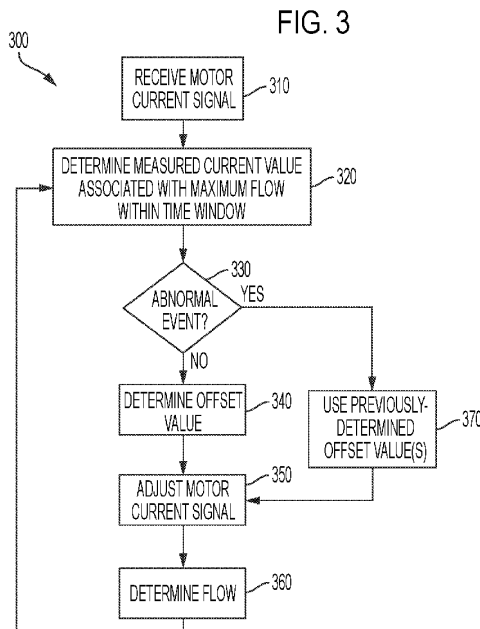




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(54) **Title:** ADAPTIVE FLOW CALCULATION FOR A MECHANICAL CIRCULATORY SUPPORT DEVICE



(57) **Abstract:** Methods and apparatus for determining flow through a circulatory support device are provided. The method comprises receiving a motor current signal from a motor of the circulatory support device, determining within a time window of the motor current signal, a measured current value at which flow through the circulatory support device is maximum, determining an offset value based, at least in part, on the measured current value, determining based, at least in part, on the received motor current signal, whether an abnormal condition has occurred, adjusting the motor current signal based, at least in part, on the offset value and the determination of whether an abnormal condition has occurred to produce an adjusted motor current signal, and determining the flow through the circulatory support device based, at least in part, on the adjusted motor current signal.

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