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(71) Applicant: **THE JOHNS HOPKINS UNIVERSITY** [US/US]; 3400 N. Charles Street, Baltimore, Maryland 21218 (US).

(72) Inventors: **STOIANOVICI, Dan**; 11916 Whispering Oak Court, Reisterstown, Maryland 21136 (US). **PETRISOR, Doru**; 2120 Pot Spring Road, Lutherville, 21093 (US).

(74) Agent: **SALOMON, Louisa**; 1812 Ashland Avenue, Suite 110, Baltimore, Maryland 21205 (US).

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(54) Title: ROBOT WATCHDOG

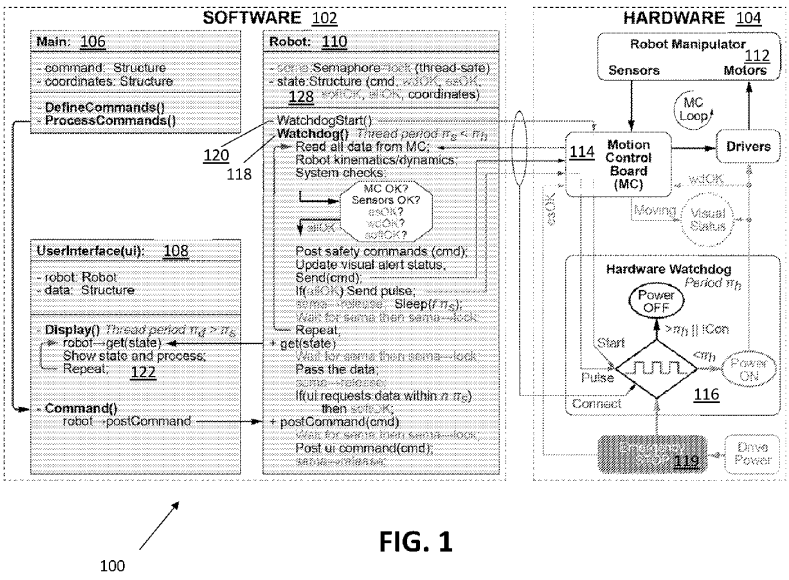


FIG. 1

(57) Abstract: Robot watchdog software is responsible for monitoring the state of the system and resulting motion and reformulating commands due to task changes and dynamic conditions. However, if the robot watchdog software slows down or stalls, the motion control board remains unsupervised and robotic motion may become hazardous. The addition of a hardware watchdog mitigates the likelihood of this hazard occurring. A hybrid software-hardware robot watchdog is described herein. A fail-safe robotic system is implemented with a two tier software-hardware check system: the software checks the robotic hardware and in turn a hardware watchdog checks the activity of the software.

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