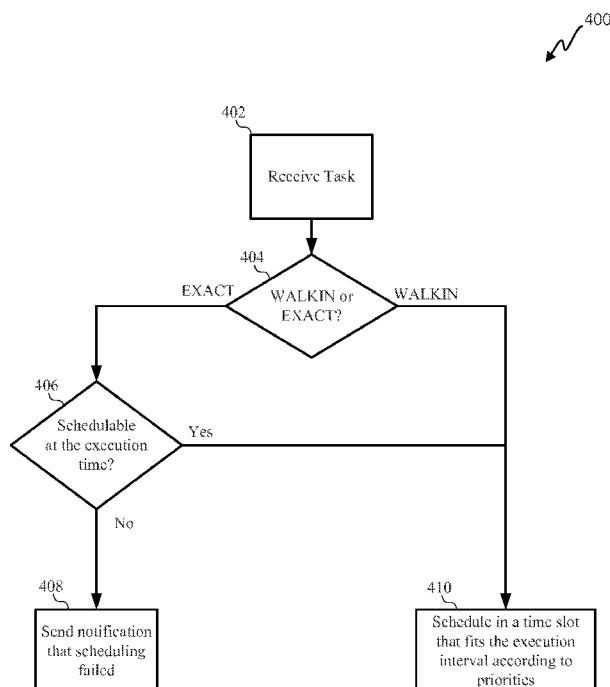




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[Continued on next page]

(54) Title: RESERVATION SCHEDULER FOR REAL-TIME OPERATING SYSTEMS IN WIRELESS SENSOR NETWORKS

**FIG. 4**

(57) Abstract: A method of scheduling tasks for a Real-Time Operating System (RTOS) in a low-power, wireless, mesh network may include receiving, at a scheduler for the RTOS, a plurality of tasks to schedule for execution by one or more processors. The plurality of tasks may include a first task; the first task may be associated with an expected execution interval; and the expected execution interval may indicate an expected length of time for the one or more processors to execute the first task. The method may also include scheduling the plurality of tasks for execution by the one or more processors. The first task may be scheduled using the expected execution time such that the first task is executed without being interrupted by others of the plurality of tasks.



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