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- (54) **Title:** THREAD CONTEXT RESTORATION IN A MULTITHREADING COMPUTER SYSTEM

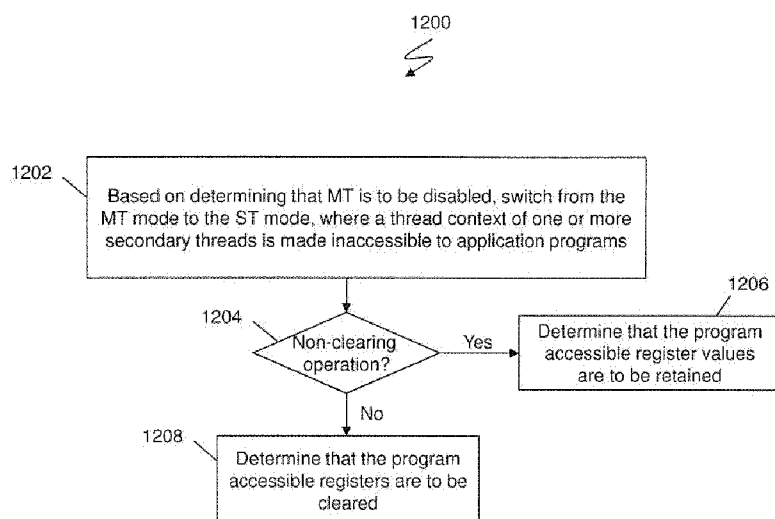


FIG. 12

(57) **Abstract:** THREAD CONTEXT RESTORATION IN A MULTITHREADING COMPUTER SYSTEM A multithreading computer system includes a configuration with a core configurable between a single thread (ST) mode and a multithreading (MT) mode. The ST mode addresses a primary thread and the MT mode addresses the primary thread and one or more secondary threads on shared resources of the core. A multithreading facility is configured to control utilization of the configuration to perform a method including disabling one or more secondary threads based on switching from MT mode to ST mode. A thread context of secondary threads is made unavailable to programs. Based on a last-set program-specified maximum thread-id indicating MT, the thread context is obtained by a) executing a set MT instruction to resume the MT mode, and b) based on being in the resumed MT mode, accessing the thread context.



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