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(54) **Title:** TIME CONSTRAINT MANAGEMENT AT A MANUFACTURING SYSTEM

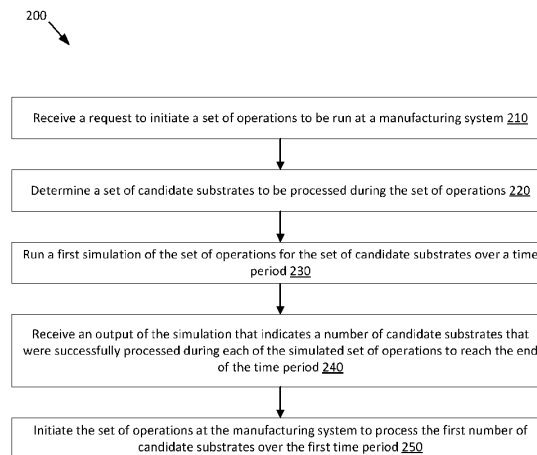


FIG. 2

(57) **Abstract:** A method for time constraint management at a manufacturing system is provided. A first request to initiate a set of operations to be run at the manufacturing system is received. The set of operations include one or more operations that each have one or more time constraints. A first set of candidate substrates to be processed during the set of operations is determined. A first simulation of the set of operations for the first set of candidate substrates is run over a first period of time. The simulation generates a first simulation output indicate a first number of candidate substrates that were successfully processed during each of the simulated set of operations to reach the end of the first time period. The set of operations is initiated at the manufacturing system to process the first number of candidate substrates over the first time period.

[Continued on next page]

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