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(54) Title: MULTISTAGE RESOURCE SCHEDULING

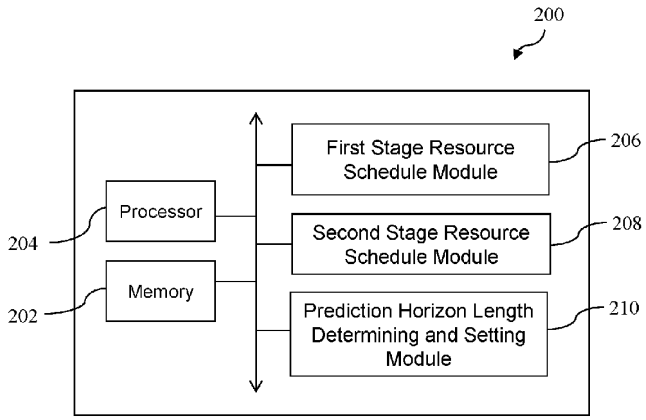


FIG. 2

(57) Abstract: A method of multistage resource scheduling is provided. The method includes: determining, at a first stage, a first stage resource schedule across a first stage scheduling horizon, including a series of timesteps, for a plurality of resource parameters based on a first optimization function; and determining, at a second stage, a second stage resource schedule across a second stage scheduling horizon, including a series of timesteps, for the plurality of resource parameters based on a second optimization function, including, for each timestep, in turn, of the series of timesteps of the second stage scheduling horizon: determining a resource schedule across a prediction horizon with respect to the timestep, including a subseries of timesteps, starting with the timestep, of the series of timesteps of the second stage scheduling horizon, for the plurality of resource parameters based on the second optimization function; and storing values of the resource schedule determined for the plurality of resource parameters for a beginning timestep of the subseries of timesteps as determined values for the plurality of resource parameters for the timestep of the series of timesteps of the second stage scheduling horizon. In particular, for each of one or more timesteps or each of one or more intervals of timesteps of the series of timesteps of the second stage scheduling horizon, respectively, the method further includes determining and setting a length of the prediction horizon for the above-mentioned determining the resource schedule across the prediction horizon. There is also provided a corresponding system for multistage resource scheduling.

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