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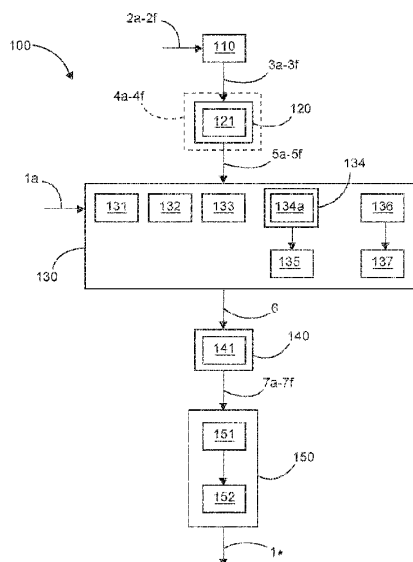


Fig. 1

(57) Abstract: A method (100) for determining the state of health (1*) of an industrial process (1), wherein the process (1) is executed by at least one industrial plant comprising an arrangement of entities (2a-2f) and the state of each such entity (2a-2f) is characterized by a set of entity state variables (3a-3f), comprising the steps of: • obtaining (110) values, and/or time series of values, of the entity state variables (3a-3f); • for each entity (2a-2f), providing (120) the values (3a-3f), and/or time series of values (3a-3f), to a model (4a-4f) corresponding to the respective entity (2a-2f), thereby obtaining a prediction of the state of health (5a-5f) of the respective entity (2a-2f); • determining (130), based at least in part on the layout (1a) of the industrial plant executing the process (1), propagation paths (6) for anomalies between said entities (2a-2f); • determining (140), based at least in part on said propagation paths (6), importances (7a-7f) of the states of health (5a-5f) of the individual entities (2a-2f) for the overall state of health (1*) of the process; and • aggregating (150), based at least in part on said importances (7a-7f), the individual states of health (5a-5f) of the entities (2a-2f) to obtain the overall state of health (1*) of the process (1).

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