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(54) Title: METHOD FOR GENERATING A PROCESS MODEL

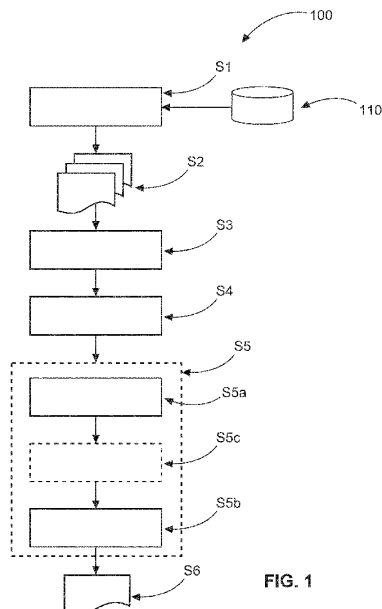


FIG. 1

(57) Abstract: A method (100) for generating a process model modeling a manu-
al mode procedure instance of a plant process is proposed, the procedure instances
comprising a related sequence of operational actions, i.e. mining of historical plant
logs to generate a workflow model, including the steps of: Providing a plurality
of log events (S1) of a plurality of operational actions (110) of the plant process;
Selecting a plurality of related sequences of manual mode operational actions (S2)
from the plurality of log events; Filtering the plurality of related sequences of manual
mode operational actions according to an individual plant section (S3); Identifying
a sequential order (S4) from the plurality of filtered related sequences of the manu-
al mode operational actions; Determining statistical properties of values of related
process variables and/or statistical properties of values of related set point changes
(S5) to each sequential ordered manual mode operational action from the plurality
of filtered related sequences of the manual mode operational actions; Generating
the process model (S6) of the manual mode procedure instance by arranging related
manual mode operational actions with the sequential order of each operational ac-
tion assigned with the statistical properties of the values of related process variables
and/or assigned with the statistical properties of the values of the related set point
changes.

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