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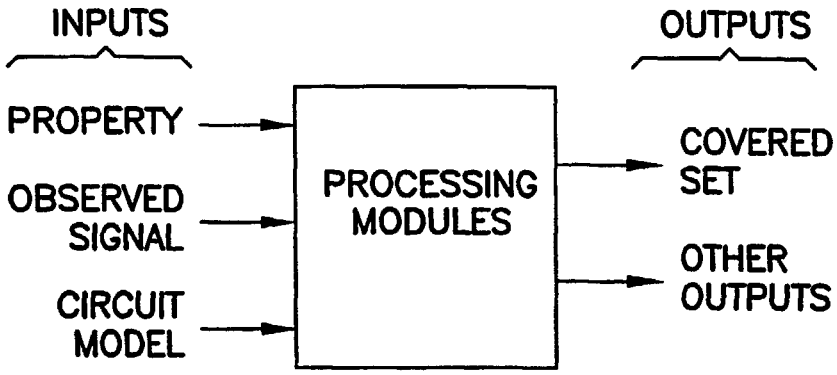
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(57) Abstract: One aspect of the invention is a coverage metric to identify that part of a state space which is covered by properties verified by model checking. In each property, a signal is identified (or a proposition on several signals) as the observed signal in that property. The coverage metric measures the coverage of a set of properties with respect to the observed signal. The coverage metric identifies the reachable states in which the value of the observed signal determines the validity of the verified properties. Then a model checking algorithm can be used to check the correctness condition on the observed signal in these "covered" states to prove or disprove the property.

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