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(54) Title: METHOD AND APPARATUS FOR DESIGN OF PIPELINE COMPONENTS

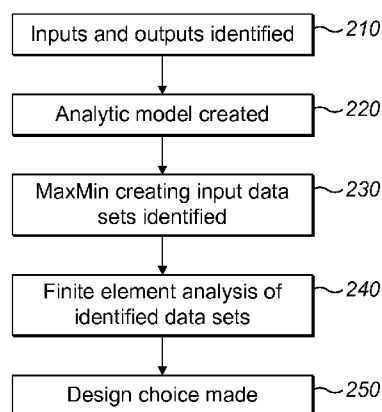


FIG. 2

(57) Abstract: Methods and apparatus for pipeline component design are described. Input parameters and output parameters for the component design are identified (210). An analytic model is constructed using a design of experiments technique to represent influence of the input parameters on the output parameters (220). Value sets for the input parameters which meet a selection criterion for at least one of the output parameters are then identified (230). Finite element analysis is conducted (240) on the identified value sets, and a pipeline component design choice is identified (250) from results of the finite element analysis. Pipeline components are then manufactured according to the identified design.



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