



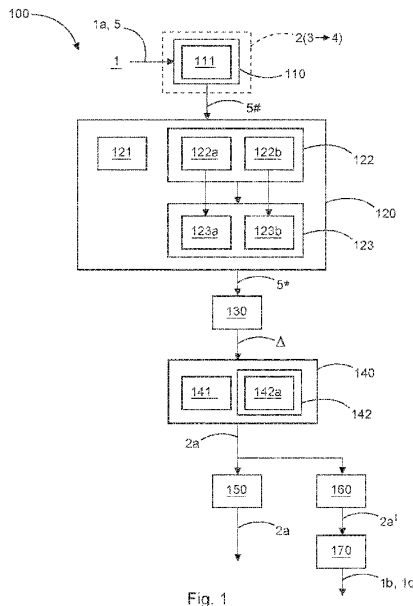
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- (54) **Title:** ESTABLISHING OR IMPROVING A SIMULATION MODEL OF AN ELECTROLYZER PLANT



- (57) **Abstract:** A method (100) for establishing and/or improving a simulation model (2) of an electrolyzer plant (1) comprising at least one electrolyzer, wherein the simulation model (2) is configured to map one or more variables (3) that characterize an operating state (1a) of the electrolyzer plant (1) to one or more performance indicators (4) of the electrolyzer plant (1), the method comprising the steps of: - predicting (110), using the simulation model (2), for a given operating state (1a) of the electrolyzer plant (1), one or more prediction values (5#) of at least one quantity (5); - obtaining (120) one or more measurement values (5*) of the same at least one quantity (5) that relate to the same given operating state (1a) of the electrolyzer plant (1); - determining (130) at least one deviation (#) of the one or more prediction values (5#) from the respective measurement values (5*); - determining (140), from the deviation (#) and the simulation model (2), a contribution and/or an adjustment (2a) to the simulation model (2); and - applying (150) the contribution, and/or the adjustment (2a), to the simulation model (2).

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

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