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(54) **ELECTRICALLY HEATED, HYBRID HIGH-TEMPERATURE METHOD**

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(57) **ABSTRACT**

A method of continuously performing one or more heat-consuming processes, where at least one heat-consuming process is electrically heated. The maximum temperature in the reaction zone of the heat-consuming process is higher than 500° C., at least 70% of products of the heat-consuming process are continuously processed further downstream and/or fed to a local energy carrier network, and the electrical energy required for the heat-consuming process is drawn from an external power grid and from at least one local power source. The local power source is fed by at least one local energy carrier network and by products from the heat-consuming process. The local energy carrier network stores natural gas, naphtha, hydrogen, synthesis gas, and/or steam as energy carrier, and has a total capacity of at least 5 GWh. The local energy carrier network is fed with at least one further product and/or by-product from at least one further chemical process.