

Title (en)
A TECHNIQUE FOR ACTIVATING SULFUR-BASED ELECTRODE FOR AN ELECTROLYSER

Title (de)
VERFAHREN ZUR AKTIVIERUNG EINER SCHWEFELBASIERTEN ELEKTRODE FÜR EINEN ELEKTROLYSATOR

Title (fr)
TECHNIQUE D'ACTIVATION D'ÉLECTRODE À BASE DE SOUFRE POUR UN ÉLECTROLYSEUR

Publication
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Application
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Abstract (en)
[origin: WO2017148507A1] A method and an arrangement for activating a Sulfur-based electrode for an electrolyser are provided. The Sulfur-based electrode includes sulfur and an electrically conductive non-sulfur material such as Nickel. In the method, an electrolyte and a complexing agent are provided to a container. The Sulfur-based electrode is positioned in the container. The electrolyte and the complexing agent are contacted with at least a part of a surface of the Sulfur-based electrode. The electrolyte reacts with the Sulfur-based electrode to release at least a part of the sulfur from the Sulfur-based electrode. The complexing agent reacts with the released sulfur to form a coordination complex with the released sulfur. The coordination complex is removed from the container. The coordination complex formed by the chemical reaction between the released sulfur and the complexing agent is in solid state, and thus is removed with ease from the electrolyte which is in liquid state.

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