

Title (en)

ELECTROCHEMICAL CELL, USE OF THE ELECTROCHEMICAL CELL, AND METHOD FOR ELECTROLYTICALLY CONTACTING AND ELECTROCHEMICALLY INFLUENCING A SURFACE

Title (de)

ELEKTROCHEMISCHE ZELLE, VERWENDUNG DER ELEKTROCHEMISCHEN ZELLE SOWIE VERFAHREN ZUR ELEKTROLYTISCHEN KONTAKTIERUNG UND ELEKTROCHEMISCHEN BEEINFLUSSUNG VON OBERFLÄCHEN

Title (fr)

CELLULE ELECTROCHIMIQUE, UTILISATION DE CETTE CELLULE ELECTROCHIMIQUE ET PROCEDE DE METALLISATION ELECTROLYTIQUE ET INFLUENCE ELECTROCHIMIQUE D'UNE SURFACE

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Application

EP 01964794 A 20010918

Priority

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- CH 3652001 A 20010228

Abstract (en)

[origin: WO0225249A2] The invention relates to an electrochemical cell for electrolytically contacting and electrochemically testing surfaces, which makes electrolytic contact with the surface via a body having a capillary effect. The capillary force between the surface and body that has a capillary effect prevents the electrolyte from flowing out of the cell without requiring the use of a sealing ring. The body having a capillary effect permits the electrolyte to continue to flow out of an open porous container and enables the wetting of the surface when the electrochemical cell comes into contact with the surface. The electrolyte is prevented from flowing out of the open cell by the capillary effect of the container and of the tip when the electrochemical cell is lifted from the surface. The electrochemical cell is unaffected by the force of gravity thus enabling measurements to be carried out on surfaces oriented in any manner. The electrochemical cell makes it possible to carry out a multitude of electrochemical tests and processes. The electrochemical cell can be guided over the surface in a sliding manner, whereby enabling electrochemical tests or processes to be carried out with lateral resolution. The use of a maintenance-free reference electrode enables the electrochemical cell to be industrially prefabricated, in full, and enables it to be preserved over long periods of time by sealing.

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CPC (source: EP US)

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Citation (search report)

See references of WO 0225249A2

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