

Title (en)

METHOD AND TEST FACILITY FOR TESTING A BIPOLAR PLATE OF AN ELECTROCHEMICAL CELL, IN PARTICULAR OF A FUEL CELL

Title (de)

VERFAHREN UND PRÜFANLAGE ZUM PRÜFEN EINER BIPOLARPLATTE EINER ELEKTROCHEMISCHEN ZELLE, INSBESONDERE EINER BRENNSTOFFZELLE

Title (fr)

PROCÉDÉ ET INSTALLATION DE TEST PERMETTANT DE TESTER UNE PLAQUE BIPOLAIRE D'UNE CELLULE ÉLECTROCHIMIQUE, EN PARTICULIER D'UNE PILE À COMBUSTIBLE

Publication

EP 4122042 A1 20230125 (DE)

Application

EP 21717314 A 20210226

Priority

- DE 102020107779 A 20200320
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Abstract (en)

[origin: WO2021185404A1] Provision is made for a method for testing a bipolar plate of an electrochemical cell, in particular of a fuel cell, in which an image (12) of a surface of a bipolar plate (14) is created, the image (12) is investigated for possible defects (28) by an automated image processing-assisted evaluation system, and in the event of the evaluation system identifying an investigated bipolar plate (14) as a potentially defective suspect plate, a detailed test (22) is performed on a region of the suspect plate identified as potentially defective. By virtue of the evaluation methods applied in the automated evaluation system during the image processing of the image (12), it is possible to increase the test quality when testing a bipolar plate of an electrochemical cell, such as a fuel cell, without significant additional outlay, thereby allowing an inexpensive and reliable test.

IPC 8 full level

H01M 50/403 (2006.01); **G01N 21/88** (2006.01); **H01M 8/0202** (2006.01)

CPC (source: EP KR)

B23K 31/125 (2013.01 - KR); **G01N 21/8851** (2013.01 - EP KR); **G01N 21/91** (2013.01 - KR); **G01N 21/95** (2013.01 - EP KR); **G01N 23/18** (2013.01 - KR); **G01N 27/84** (2013.01 - KR); **G01N 29/043** (2013.01 - EP KR); **G01N 29/4481** (2013.01 - EP KR); **G06N 3/04** (2013.01 - KR); **G06N 3/08** (2013.01 - KR); **G06T 7/0004** (2013.01 - EP KR); **H01M 8/0202** (2013.01 - EP KR); **G01N 21/91** (2013.01 - EP); **G01N 2021/8854** (2013.01 - KR); **G01N 2021/8883** (2013.01 - EP KR); **G01N 2021/8887** (2013.01 - KR); **G01N 2223/629** (2013.01 - KR); **G01N 2223/646** (2013.01 - KR); **G01N 2291/044** (2013.01 - KR); **G01N 2291/267** (2013.01 - KR); **G01N 2291/2697** (2013.01 - EP); **G06T 2207/20081** (2013.01 - EP KR); **G06T 2207/20084** (2013.01 - EP KR); **Y02E 60/50** (2013.01 - EP KR)

Designated contracting state (EPC)

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