

Title (en)

DEVICE FOR THE ELECTROCHEMICAL PURIFICATION AND COMPRESSION OF HYDROGEN HAVING A PLURALITY OF STAGES

Title (de)

VORRICHTUNG ZUR ELEKTROCHEMISCHEN REINIGUNG UND KOMPRESSION VON WASSERSTOFF MIT MEHREREN STUFEN

Title (fr)

DISPOSITIF DE PURIFICATION ET DE COMPRESSION ELECTROCHIMIQUE DE L'HYDROGENE A PLUSIEURS ETAGES

Publication

EP 3013738 A1 20160504 (FR)

Application

EP 14739896 A 20140626

Priority

- FR 1356158 A 20130626
- FR 2014051614 W 20140626

Abstract (en)

[origin: WO2014207388A1] This device forms an electrochemical compressor having a plurality of stages, capable of pressurising hydrogen flowing through said device. It comprises: a hydrogen inlet and outlet; at least two membrane-electrode assemblies (AME), each membrane-electrode assembly forming an electrochemical cell; said AMEs being arranged so as to be traversed by a hydrogen stream, and being electrically connected to each other in series; each of the AMEs comprising an active surface designed to allow hydrogen redox reactions to take place; The AMEs have active surfaces separate from each other, and decreasing in the direction of flow of the hydrogen.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 2014207388A1

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