

Title (en)

METHOD FOR PRODUCING PURE GASES, IN PARTICULAR HYDROGEN AND OXYGEN

Title (de)

VERFAHREN ZUR HERSTELLUNG VON REINEN GASEN, INSBESONDERE WASSERSTOFF UND SAUERSTOFF

Title (fr)

METHODE POUR LA PRODUCTION DES GAZS PURS, EN PARTICULIER D'HYDROGENE ET D'OXYGENE

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Application

EP 03752799 A 20030512

Priority

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Abstract (en)

[origin: WO03097524A1] The invention concerns the control of production of separate gases, in particular in the production of hydrogen and oxygen by thermal dissociation of water. It concerns the manufacture of compact appliances, optionally mobile, for hydrogen production. The invention aims at improvement of such appliances. The volume of a reactor (1) holds evaporated water. It comprises a crucible (2) and two cavities (3 and 4) for collecting the separate gases. The gases are extracted through oxygen-permeable (5) and hydrogen-permeable (6) membranes. The water is conveyed by a conduit (7) towards a jet nozzle (8) inside the reactor. The spout (9) of the crucible is fed by a fuel gas conduit (10), the exhaust gases are discharged through the gas conduits. One conduit (12) is used for oxygen, which will be added to the fuel gas circuit. The other conduit (13) will transport hydrogen to its destination. The inventive device is particularly designed for mobile production of hydrogen on a small scale.

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