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(54) **Title:** HYDROGEN GENERATING DEVICE HAVING EXTRACTABLE FILTERING STRUCTURE

(54) 发明名称: 具备可抽取式过滤结构的氢气产生装置

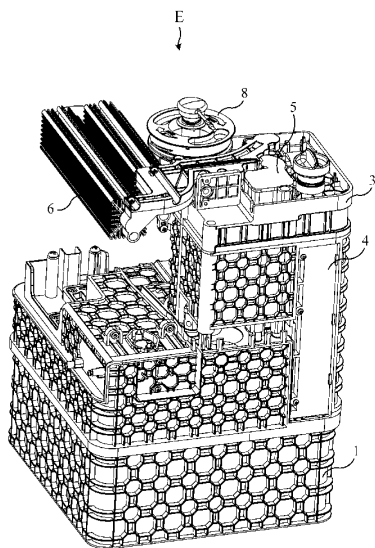


图1

(57) **Abstract:** A hydrogen generating device having an extractable filtering structure, comprising a water tank, an electrolytic cell arranged in the water tank, a filtering flow channel device coupled to the water tank, a humidifier vertically stacked above the water tank, an integrated flow channel device vertically stacked above the humidifier, and a condenser arranged above the integrated flow channel device. The water tank is used for containing electrolysis water; the electrolytic cell electrolyzes the electrolysis water to generate hydrogen-containing gas; the humidifier is provided with a humidifying chamber and a gas transmission passage, the humidifying chamber and the gas transmission passage being isolated from each other; the filtering flow channel device is arranged in the gas transmission passage and used for filtering the hydrogen-containing gas generated by the electrolytic cell; the condenser is used for receiving and condensing the hydrogen-containing gas output by the filtering flow channel device; the integrated flow channel device comprises a gas inflow flow channel, which is used for introducing the hydrogen-containing gas output by the condenser to the humidifying chamber. Therefore, the present invention improves the convenience and the mounting efficiency, and can effectively increase the condensation and filtering efficiency.

本国际公布:

— 包括国际检索报告(条约第21条(3))。

(57) 摘要: 一种具备可抽取式过滤结构的氢气产生装置, 包含水箱、设置于水箱中的电解槽、耦接水箱的过滤流道装置、垂直堆叠于水箱上方的湿化器、垂直堆叠于湿化器上方的整合式流道装置、以及设置于整合式流道装置上方的冷凝器, 水箱用以容置电解水, 电解槽电解该电解水以产生含氢气体, 湿化器具有湿化室及输气通道, 并且湿化室及输气通道互相隔离, 过滤流道装置设置于输气通道中并且用以过滤电解槽所产生的含氢气体, 冷凝器用以接收及冷凝该过滤流道装置所输出的含氢气体, 整合式流道装置包含入气流道, 其用以导入冷凝器所输出的含氢气体至湿化室, 由此, 本发明提升便利性及安装效, 能有效提升冷凝及过滤效率。