Battery automatic weighing formic acid device

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The present disclosure relates generally to portable energy generation devices and methods. The devices are designed to covert formic acid into released hydrogen, alleviating the need for a hydrogen tank as a hydrogen source for fuel cell power. In particular, an electricity generation device for powering a battery comprising a formic acid reservoir containing a liquid ...

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The devices arc designed to covert formic acid into released hydrogen, alleviating the need for a hydrogen tank as a hydrogen source for fuel cell power. This technology is clean and renewable and overcomes the limitations of Li-batteries and hydrogen tanks. BRIEF DESCRIPTION OF THE DRAWINGS. FIG. 1 shows a schematic view of one embodiment for ...

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In an innovative leap forward, a Chinese research team has spearheaded the development of a groundbreaking hybrid battery system, interweaving the electrochemical creation of formic acid from carbon dioxide with a microbial fuel cell.

A Chinese research team have now developed a fast-charging hybrid battery system that combines the electrochemical generation of formic acid as an energy carrier with a microbial fuel cell.

Formic acid does not increase in volume when it solidifies and has a tendency to undergo supercooling. Table 2 shows the vapor pressure curve of pure formic acid. The vapor of formic acid deviates considerably from the behavior of an ideal gas because the molecules dimerize partially in the vapor phase.

What is claimed is: 1. An electricity generation device for powering a battery, comprising: (a) a formic acid reservoir containing a liquid consisting of formic acid; (b) a reaction chamber capable of using a catalyst and heat to convert the formic acid to hydrogen and carbon dioxide; (c) a fuel cell that generates electricity; (d) a delivery system for moving converted hydrogen into the fuel ...

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