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ABSTRACT

The invention relates to a rechargeable battery system with a plurality of electrodes in an electrolyte space filled with electrolyte, which can be tapped with the aid of an electrical tap. At least one of the electrodes is constructed as a substantially insoluble electrode of the second type. Said electrode also has a separator arrangement or an electrochemically active coating provided with a surface profile, through which it is possible to reduce at least the structural and/or shape changes of the electrode during cyclic charging and discharging linked with the sinking of mechanically unstable discharge products.