

Electrode Unit

Abstract

5 The invention relates to an electrode unit for an electrochemical device, comprising a solid electrolyte (3) and a porous electrode (7), the solid electrolyte (3) dividing a compartment for cathode material and a compartment for anode material and the porous electrode (7) being extensively connected to the solid electrolyte (3), with a displacer (23) being accommodated in the anode material compartment, where the
10 displacer (23) is manufactured from a stainless steel or from graphite foil and bears resiliently against the internal geometry of the solid electrolyte (3) in such a way that the displacer (23) does not contact the solid electrolyte over its full area, or with the displacer comprising an outer shell (62) of stainless steel or graphite, and a core (64) of a nonferrous metal, the nonferrous metal being thermoplastically deformable at a
15 temperature which is lower than the temperature at which the stainless steel is thermoplastically deformable, and where for production the shell (62) of stainless steel or graphite is pressed onto the solid electrolyte (3) by introduction and heating of the nonferrous metal, and on cooling forms a gap between solid electrolyte (3) and shell (62) of stainless steel.

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(Figure 4)