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(54) **Title**: AN ADDITIVE FOR LITHIUM ION RECHARGEABLE BATTERY CELLS

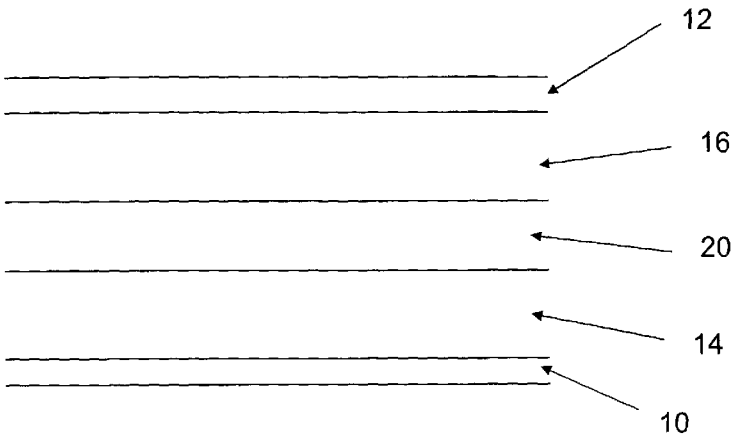

Figure 1

(57) **Abstract**: The present invention claims the addition of vinylene carbonate (VC) and optionally also fluoroethylene carbonate to the electrolyte of lithium ion cells having a structural silicon composite anode, i.e. an anode containing fibres or particles of silicon. The additive significantly improves the cycling performance of the cells. A VC content in the range 3.5 - 8 wt% based on the weight of the electrolyte has been found to be optimum.

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