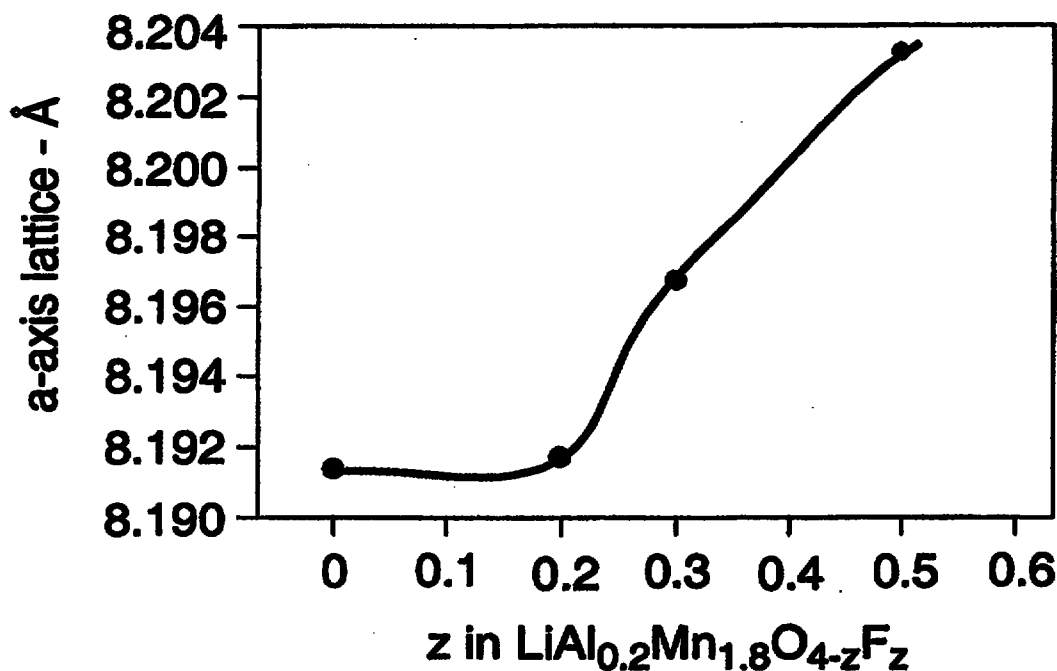




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(54) Title: LITHIUM ALUMINUM MANGANESE OXY-FLUORIDES FOR LI-ION RECHARGEABLE BATTERY ELECTRODES



(57) Abstract

The cycling stability and capacity of Li-ion rechargeable batteries are improved, particularly in an elevated temperature range of about 55 °C, by the use of lithium aluminum manganese oxy-fluoride electrode components having the general formula, $\text{Li}_{1+x}\text{Al}_y\text{Mn}_{2-x-y}\text{O}_{4-z}\text{F}_z$, where $x \leq 0.4$, $0.1 \leq y \leq 0.3$, and $0.05 \leq z \leq 0.5$.