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(54) Title: NEW ANODE MATERIAL IN LITHIUM AND SODIUM BATTERIES

(57) Abstract: The invention pertains to the use of porous, chemically interconnected, carbon nanofibres-comprising carbon networks as electrochemically active material in the anode of lithium or sodium batteries. It has been found that said carbon nanofibres-comprising carbon networks can beneficially be used in the anode of lithium or sodium batteries when added in an amount of 10 - 100 wt%. The benefits include a high capacity, high lifetime (stability over extended cycling), high charge and discharge rate and being resilient during manufacture and use. The porous, chemically interconnected, carbon nanofibres-comprising carbon networks can be used in the anode of lithium or sodium batteries of many areas of technology, such as smartphones, laptops and electric and hybrid vehicles.



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