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(54) Title: NEW CONDUCTIVE ADDITIVE IN LITHIUM AND SODIUM BATTERIES

(57) Abstract: The invention pertains to the use of porous, chemically interconnected, carbon nanofibres-comprising carbon networks as a conductive additive in lithium or sodium batteries. It has been found that said carbon- nanofibre comprising carbon networks can beneficially be used in the cathode of lithium or sodium batteries when added in an amount of 0.1 - 20 wt%, and/or in the anode of lithium or sodium batteries when added in an amount of 0.1 - 10 wt%. The benefits include a 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 as conductive additive in the anode and/or cathode of lithium or sodium batteries of many areas of technology, such as smartphones, laptops and electric and hybrid vehicles.



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