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(54) Title: PARTICLES OF DOPED LITHIUM COBALT OXIDE, METHOD FOR PREPARING THE SAME AND THEIR USE IN LITHIUM ION BATTERIES

(57) Abstract: The invention relates to provision of a novel high performance material manufactured from particles of doped lithium cobalt oxide which are usable in the manufacture of cathodes for lithium ion rechargeable (or storage) batteries. The doping agent is selected from the group of lanthanide oxides. Other objects of the invention are a method of improving the stability and the storage capacity of rechargeable lithium ion batteries and a method of manufacturing particles of doped lithium cobalt oxide according to the invention.



WO 2010/150038 A1