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(54) Title: LITHIUM AND GRAPHITE RECYCLED FROM BLACK MASS

(57) Abstract: The present invention relates to a composition comprising lithium carbonate obtained from black mass. The composition can be obtained by a process comprising (i) mixing black mass with a liquid to provide black mass slurry; (ii) converting lithium into a lithium salt in and removing graphite from the black mass slurry of step (i); (iii) separating dissolved lithium carbonate from solids in the black mass slurry of step (ii) to provide a lithium-enriched liquid fraction and a lithium-depleted solid fraction; optionally, reducing the lithium salt in the lithium-enriched liquid fraction of step (iii) to provide elementary lithium; (v) optionally, purifying the lithium salt in the lithium-enriched liquid fraction of step (iii) or the elementary lithium of step (iv); and (vi) optionally, solidifying the lithium salt of step (iii) or (v) or the elementary lithium of step (iv) or (v).



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