

Title (en)  
METHOD FOR RECYCLING LI-ION BATTERIES

Title (de)  
VERFAHREN ZUM WIEDERVERWERTEN VON LI-IONEN-BATTERIEN

Title (fr)  
PROCEDE DE RECYCLAGE DES BATTERIES LI-ION

Publication  
**EP 4041926 A1 20220817 (FR)**

Application  
**EP 20796631 A 20201005**

Priority  
• FR 1911251 A 20191010  
• FR 2020051737 W 20201005

Abstract (en)  
[origin: CA3156827A1] Disclosed is a method for recycling a battery comprising the following steps: a) dissolving a piece of battery waste, for example an electrode, comprising lithium and a metal chosen from cobalt and manganese, whereby a solution to be treated containing lithium ions and ions of the metal is formed; b) adding a peroxomonosulfate salt to the solution to be treated, the solution to be treated being regulated at a pH of between 1 and 4 when the metal is cobalt or at a pH of between 0.1 and 2.5 when the metal is manganese, whereby the ions of the metal are selectively precipitated in the form of metal oxyhydroxide; and c) separating the lithium ions from the solution to be treated. Advantageously, the solution also comprises nickel ions.

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