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(54) Title: ELECTROCHEMICAL Ca(OH)₂ AND/OR Mg(OH)₂ PRODUCTION FROM INDUSTRIAL WASTES AND Ca/Mg-CONTAINING ROCKS

(57) Abstract: A method of preparing metal hydroxides from industrial wastes or alkaline rocks is provided. The method comprise subjecting a mixture comprising a solvent and a solid substrate to a stimulus in order to leach a metal cation from the solid substrate into the solvent, thereby forming a solution comprising the metal cation in the solvent; and contacting the solution of comprising the metal cation with a cathode, thereby electrolytically precipitating the metal hydroxide from the solution. The stimulus may be chemical, mechanical, or both.



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