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(54) Title: SEAWATER ELECTROLYSIS ENABLES MG(OH)₂ PRODUCTION AND CO₂ MINERALIZATION

(57) Abstract: A method for producing one or more hydroxide solids includes providing a catholyte comprising an electrolyte solution; contacting the catholyte with an electroactive mesh cathode to electrolytically generate hydroxide ions, thereby precipitating the one or more hydroxide solid(s); and removing the one or more hydroxide solids from the surface of the mesh where they may deposit.

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