

Carbonation of Calcium Silicates for Long-Term CO₂ Sequestration

Disclosure Number

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Technology Summary

The subject invention disclosed herein is a chemical process for producing calcite and carbonate-cancrinite from calcium silicates and gaseous CO₂. The process of the subject invention successfully carbonates a wide variety of Ca-silicates, including plagioclase, which is abundant in many different kinds of rocks that occur worldwide. The pollution-free, mineral carbonation process of the subject invention holds the prospect of becoming a major technology for reducing industrial CO₂ emissions into the Earth's atmosphere.

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