Inorganic Admixtures for Preventing Conversion Phenomena in High-Alumina Cements

Tech ID: 23701 / UC Case 2013-634-0

SUMMARY

Professor Sant and colleagues have developed a method to prevent the strength loss caused by increased porosity seen in high alumina cement systems. The addition of inorganic admixtures serves to suppress hydrogarnet formation at the expense of more stable AFm phases. The result is high-alumina cement with increased volume stability and corrosion resistance.

PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Issued Patent	9,725,366	08/08/2017	2013-634

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INVENTORS

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OTHER INFORMATION

KEYWORDS

cleantech

CATEGORIZED AS

- **Engineering**
  - Engineering
- **Materials & Chemicals**
  - Other

RELATED CASES

2013-634-0

ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

- Method For Mitigation Of Alkali-Silica Reaction In Concrete Using Chemical Additives
- Buffer-Free Process Cycle For Co2 Sequestration And Carbonate Production From Brine Waste Streams With High Salinity
- Facile, Low-Energy Routes for the Production of Hydrated Calcium and Magnesium Salts from Alkaline Industrial Wastes
- Controlled And Efficient Synthesis Of Inorganic-Organic Composite Cementation Agents With Enhanced Strain Capacity

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