

[54] **INCREASING THE RATE OF REACTION IN REDUCING CALCIUM SULFATE TO CALCIUM SULFIDE**

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 [58] Field of Search ..... **23/137, 134, 224, 2, 3, 66, 23/181, 150**

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[57] **ABSTRACT**

Method for increasing the rate of reduction of calcium sulfate to calcium sulfide in which calcium sulfate is reduced to calcium sulfide by a reductant such as hydrogen, carbon monoxide, coke, or hydrocarbons; the rate of reaction being increased by the addition of a small amount of an accelerator agent, comprising sulfur, sulfur dioxide, a sulfur compound which will generate sulfur vapor, or a gaseous sulfur such as sulfur dioxide which will react or decompose to generate sulfur vapor or gaseous sulfide.

**16 Claims, 2 Drawing Figures**

