

Title (en)

COMPOSITION, METHOD AND APPARATUS FOR REMOVAL OF HYDROGEN SULFIDE

Publication

EP 0398952 A4 19910522 (EN)

Application

EP 89902134 A 19890113

Priority

US 14440988 A 19880115

Abstract (en)

[origin: WO8906675A1] This invention provides a process and apparatus for removing H₂S from the gaseous stream by contacting the stream with an aqueous solution of a water soluble oxidized polyvalent metal chelate catalyst in the presence of oxygen whereby the metal chelate catalyst oxidizes the hydrogen sulfide to produce elemental sulfur and the oxygen present oxidizes the reduced metal chelate catalyst to its oxidized form. This process is performed in a single reaction vessel and forms a suspension or slurry of the precipitated elemental sulfur. This invention also provides a composition for H₂S removal comprising a polyvalent metal chelate catalyst, a buffer and a dispersing agent. The process can be carried out in separate reaction zones, one zone for the oxidation of H₂S and reduction of the metal chelate catalyst (22) and a second zone for the oxidation of the reduced catalyst to its oxidized form (23).

IPC 1-7

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- No further documents have been revealed.
- See references of WO 8906675A1

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