

[54] **METHOD OF REMOVING HYDROGEN SULFIDE FROM GASES UTILIZING A POLYVALENT METAL CHELATE SOLUTION AND ELECTROLYTICALLY REGENERATING THE SOLUTION**

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[57] **ABSTRACT**

A process for the removal of H₂S from sour gas streams is described, the process being characterized by the utilization of washing solutions containing oxidizing polyvalent metal chelates of specified aminocarboxylic acids, and by the electrolytic regeneration of spent solutions. Use of an optional CO₂-selective absorbent in the washing solution is also disclosed.

6 Claims, 3 Drawing Figures

