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(54) **Title**: IMPROVED CORROSION CONTROL IN ACID GAS REMOVAL EQUIPMENT BY THE SITU GENERATION OF POLYSULFIDE IONS

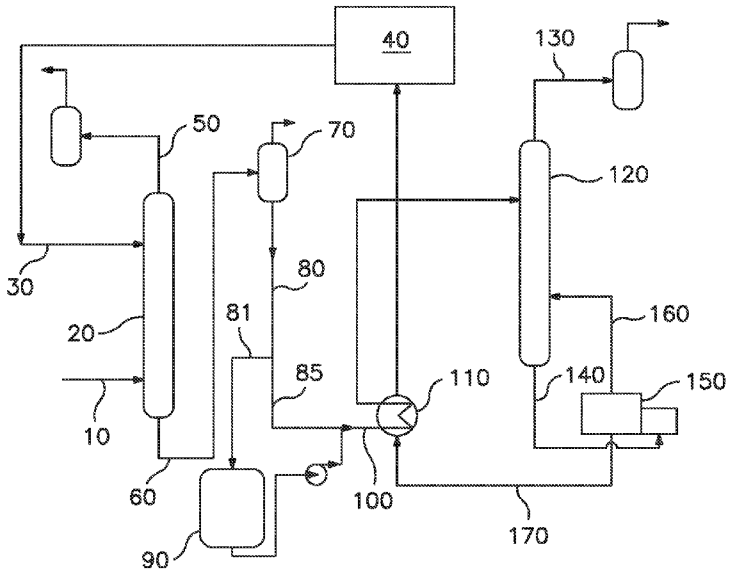


FIGURE 1

(57) **Abstract**: A method for the reduction of corrosion in a treatment unit acid used for separating hydrogen sulfide from and acid gas stream using an alkaline absoiption solution. Ions comprising the S^{2-} and/or HS^{-} ions formed by the absorption of the hydrogen sulfide in the absorbent solution are subjected to *in situ* electrochemical oxidization to form polysuifide ions which form a protective coating on the surfaces of the unit.

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