

Title (en)

Method and apparatus for heating a fluid employing a gas containing sulfur oxides and water.

Title (de)

Verfahren und Apparat zum Heizen einer Flüssigkeit unter Verwendung eines Schwefeloxys und Wasser enthaltenden Gases.

Title (fr)

Procédé et appareil pour chauffer un fluide en utilisant un gaz contenant des oxydes de soufre et de l'eau.

Publication

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Application

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Priority

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Abstract (en)

A fluid which is to be heated by a gas (in 17) containing sulfur oxides and water vapour is passed through the inner tube(s) (25) of a multi-pipe heat exchanger (21) and recovered from the outermost tube (26) thereof at such a temperature that the outer surface temperature of the outermost tube (26) is always above the acid dew point, thereby avoiding acid corrosion of the outermost tube (26) of the heat exchanger (21). In an embodiment, the heat exchanger (21) is of the double pipe type, but whichever type is employed, the heat transfer characteristics and/or sizes of the tubes of the heat exchanger (21) are selected to provide an outer surface temperature exceeding the acid dew point for reasonable and/or acceptable ranges of fluid flow rates and pressure drops therethrough.

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