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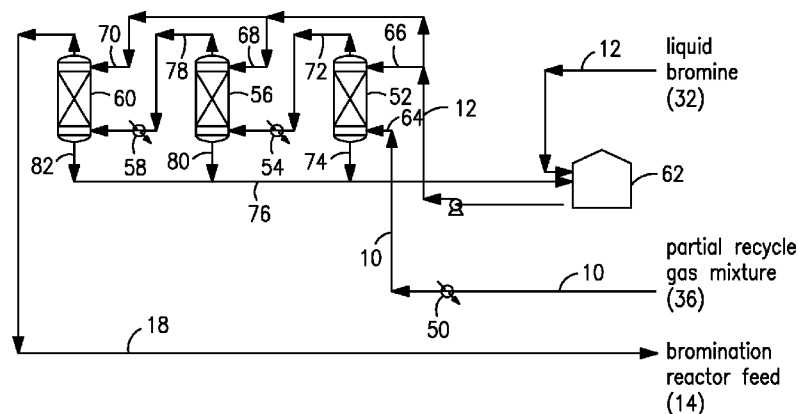
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[Continued on next page]

(54) Title: VAPORIZATION OF LIQUID HALOGEN BY CONTACT WITH A PREHEATED GAS

**FIG. 3**

(57) Abstract: A method is provided for vaporizing a liquid elemental halogen. A heating gas is preheated in the absence of halogen to a preheat temperature which results in a preheated heating gas. The preheated heating gas is directly contacted with a feed of a liquid elemental halogen and heats the feed to a vaporizing temperature sufficient to vaporize at least a portion of the feed to a quantity of an elemental halogen vapor. A gas mixture results which includes the heating gas and the quantity of the elemental halogen vapor.



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