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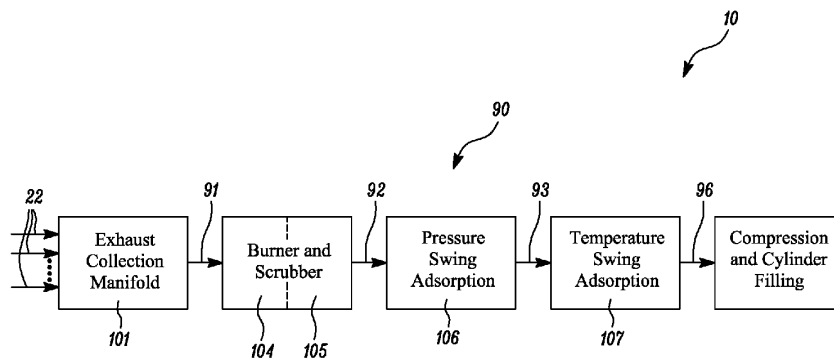
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(54) Title: NOVEL METHOD FOR PRETREATING AND RECOVERING A RARE GAS FROM A GAS CONTAMINANT STREAM EXITING AN ETCH CHAMBER



Xenon Recovery Integrated System: Major Unit Operations

Fig. 1

(57) Abstract: Novel methods for pretreating a rare-gas-containing stream exiting an etch chamber followed by recovering the rare gas from the pre-treated, rare-gas containing stream are disclosed. More particularly, the invention relates to the pretreatment and recovery of a rare gas, such as xenon or krypton, from a nitrogen-based exhaust stream with specific gaseous impurities generated during an etch process that is performed as part of a semiconductor fabrication process.

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