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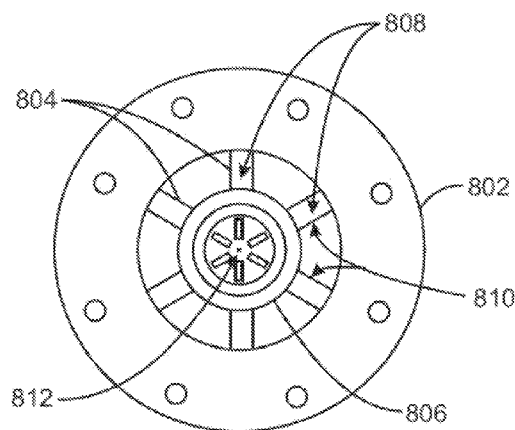
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- (54) **Title:** CONTACTING A GAS STREAM WITH A LIQUID STREAM



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FIG. 8A

(57) **Abstract:** A co-current contacting system is described herein. The co-current contacting system includes a co-current contactor located in-line within a pipe. The co-current contactor includes an annular support ring configured to maintain the co-current contactor within the pipe and a number of radial blades configured to allow a liquid stream to flow into the co-current contactor. The co-current contactor also includes a central gas entry cone configured to allow a gas stream to flow through a hollow section within the co-current contactor, wherein the co-current contactor provides for efficient incorporation of liquid droplets formed from the liquid stream into the gas stream. The co-current contacting system also includes a separation system configured to remove the liquid droplets from the gas stream.



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