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ACTION

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(54) Title: METHODS FOR REDUCING ENTRAINMENT OF SOLIDS AND LIQUIDS

(57) Abstract: Methods are provided for the reduction in entrainment of solids and liquids, and loss of valuable chemicals such as catalysts, in processing and refining sequences that employ separation devices in which non-vapors are to be separated from vapors. The methods comprise regulating the velocities of the incoming stream and the vapor being separated, and creating and maintaining the flow of the incoming stream tangentially to the inner surface of the separation vessel, so as to aid in the reduction in entrainment and loss of valuable chemicals.