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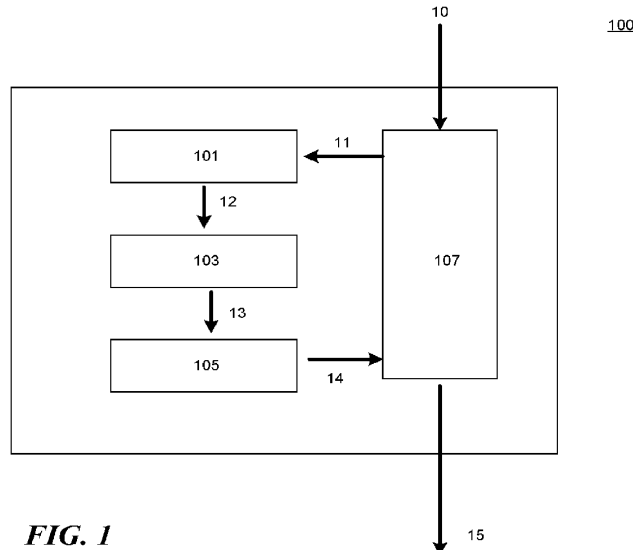


FIG. 1

(57) Abstract: A method for removing a target impurity substance from a main process flow by a regenerate material and associated systems are provided. In some embodiments, the method includes (1), directing an input flow from the main process flow to a parallel structure of components; (2) introducing the regenerate material, by the parallel structure, to the input flow to generate an impurity laden regenerate flow; (3) cooling the impurity laden regenerate flow to generate a cooled regenerate flow; (4) cleaning up the cooled regenerate flow to generate a clean regenerate flow.

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