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(54) **Method and equipment for selectively collecting process effluent**

(57) An apparatus and process for recovering a desired gas such as xenon difluoride, xenon, argon, helium or neon, from the effluent of a chemical process reactor that utilizes such gases alone or in a gas mixture or in a molecule that becomes decomposed wherein the chemical process reactor uses a sequence of different gas composition not all of which contain the desired gas and the desired gas is captured and recovered substantially only during the time the desired gas is in the effluent.

