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REPLACEMENT SHEET
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Abstract of the Disclosure

The present invention provides ~~improved processes and~~ novel and improved apparatus for reacting high flow rates of one or more gaseous reactants in tubular reactors. The improved ~~processes and apparatus~~ allow such reactions to be carried out with a low pressure drop across the reactor and without excessive erosion due to solid particles carried with or picked up by the gaseous reactants. ~~A process of this invention is basically comprised of the steps of swirling a gaseous reactant which may contain or pick up solid particles in a first annular plenum chamber followed by a second larger diameter annular plenum chamber and then introducing the gaseous reactant and solid particles into a reactor by way of two or more radial slots whereby said gaseous reactant and solid particles are caused to flow into said reactor and are uniformly distributed therein.~~