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10 **ABSTRACT**

The present invention relates to a method of manufacturing one or more chemical products in which a chemical reaction is performed by causing one or more reagents to flow along the inside of a tube disposed in a radiation zone of a furnace. In the method, at least a portion of the tube is subjected to vibration, for the purpose of limiting the deposition of reaction by-products on the inside wall of the tube. More particularly, the tube can be vibrated at a frequency lying in the range 50 Hz to 2000 Hz. The invention also provides apparatus for performing the method of the invention, which apparatus comprises a furnace including a radiation thermal enclosure through which at least one tube passes, which tube is provided with at least one excitation means suitable for generating tube vibration.

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