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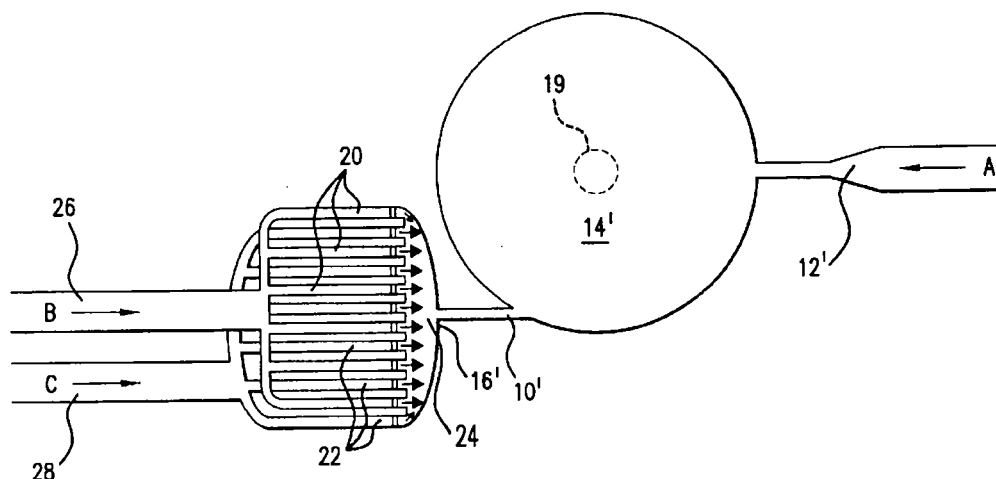
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(54) Title: APPARATUS FOR MIXING AND REACTING AT LEAST TWO FLUIDS



(57) Abstract: A novel apparatus for mixing and reacting at least two fluids is disclosed. Excellent mixing and superior pressure drop characteristics are achieved in a device comprising at least two supply channels to feed a mixing chamber and create a vortex. The alignment of the supply channels is such that fluids are introduced into the chamber at both tangential and radial directions. In the case of gas/liquid mixing, particularly advantageous is the injection of the liquid stream tangentially and the gas stream radially. Reaction of the fluids can take place within the mixing chamber or in a separate reactor in fluid communication with the mixing chamber outlet. The mixer/reactor apparatus is especially useful for reactions where rapid diffusion is critical.



ACTION

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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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