

Abstract

Apparatus for preparing a rapidly solidifying mixture from a plurality of liquid components and subsequent atomization of the solidifying mixture

The invention relates to an apparatus for preparing a rapidly solidifying mixture from a plurality of liquid components and subsequent atomization of the solidifying mixture. The apparatus comprises a mixing chamber (4), a liquid distributor (1',7) and N identical, droplet-forming nozzles (9a,9b) connected to the liquid distributor. The liquids to be mixed can be fed separately to the mixing chamber and the mixing chamber has neither significant back-mixing in the areas in which reactions can occur, nor significant dead spaces in the flow in these areas. The liquid distributor (1',7) is connected to the mixing chamber and divides the mixed stream coming from the mixing chamber equally over the nozzles (9a,9b) without significant back-mixing or dead spaces in the flow, so that the flow properties of the partial streams and their residence time in the liquid distributor are identical.