

Title (en)
METHOD AND CONDUIT SYSTEM FOR INFLUENCING THE DROP SPECTRUM OF FLUIDIC SUBSTANCES DURING THE ATOMIZATION THEREOF

Title (de)
VERFAHREN UND LEITUNGSSYSTEM ZUR BEEINFLUSSUNG DES TROPFENSPEKTRUMS VON FLUIDEN STOFFEN BEI DEREN ZERSTÄUBUNG

Title (fr)
PROCEDE ET SYSTEME DE TUYAUTERIE POUR INFLUER SUR LE SPECTRE DES GOUTTES DE SUBSTANCES FLUIDES LORS DE LEUR VAPORISATION

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Abstract (en)
[origin: WO0162399A1] The invention relates to a method and corresponding conduit system for influencing the drop spectrum of fluidic substances during the atomization thereof by means of single-substance pressure nozzles, especially of suspensions used in spray drying or in the prilling of melts. A conduit system and method should be provided with which, during continuous operation, the width of the spectrum and the average diameter of the drops can be altered without exchanging individual nozzles. To these ends, the invention provides that, for example, in a spray tower (25), the drop size can be altered independently of the flow rate by means of at least one of the nozzles (6a, 6b) that are supplied with an aggregate fluid stream (FG) which is delivered by means of pumps (2) and which, independent of the flow rate, is divided into a number of partial streams (T3, T4) in the direction of delivery after the pump (2). For this, the delivery characteristics of a number of partial streams (T3) flowing to at least one nozzle (6a, 6b) with two supply lines are influenced by means of valves and/or pumps (5, 8) in such a way that the total flow rate is adjusted by the pumps (2) integrated in the aggregate fluid stream (FG). Alternatively, during the operational state, the division ratio of the partial streams (T3, T4) is adjusted, and the drop size is separately adjusted for the individual nozzle (6a, 6b).

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