

Title (en)
PROCESS AND DEVICE FOR INFLUENCING LIQUID DROPS IN A GAS STREAM

Title (de)
VERFAHREN UND VORRICHTUNG ZUR BEEINFLUSSUNG VON IN EINER GASSTRÖMUNG BEFINDLICHEN FLÜSSIGKEITSTROPFEN

Title (fr)
PROCEDE ET DISPOSITIF PERMETTANT D'INFLUER SUR DES GOUTTES DE LIQUIDE DANS UN COURANT GAZEUX

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Application
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Abstract (en)
[origin: US6080225A] PCT No. PCT/EP96/02651 Sec. 371 Date Apr. 18, 1997 Sec. 102(e) Date Apr. 18, 1997 PCT Filed Jun. 19, 1996 PCT Pub. No. WO97/00116 PCT Pub. Date Jan. 3, 1997A method of separating liquid drops from a gas stream includes the step of introducing the gas stream having a temperature greater than 600 DEG C. into shaped elements having very narrow channels through which the gas stream flows, wherein the shaped elements are of a material that becomes conductive at high temperatures and further includes the step of selecting the width of the narrow channels based on the gas stream velocity such that turbulence is generated along the flow path causing the liquid drops to strike the channel walls and deposit thereon. The apparatus for separating liquid drops from a gas stream includes a plurality of shaped elements having very narrow channels through which the gas stream having a temperature greater than 600 DEG C. flows, the shaped elements combined to a compound structure and are of a material that becomes conductive at high temperatures and the channels having a width based upon the gas stream velocity to effect turbulence along the flow path causing the liquid drops to strike the channel walls and deposit thereon.

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