

Title (en)  
METHOD FOR PRODUCING VERY FINE PARTICLES AND JET MILLS THEREFOR, AIR SEPARATOR AND METHOD FOR THE OPERATION THEREOF

Title (de)  
VERFAHREN ZUR ERZEUGUNG FEINSTER PARTIKEL UND STRAHLMÜHLE DAFÜR SOWIE WINDSICHTER UND BETRIEBSVERFAHREN DAVON

Title (fr)  
PROCÉDÉ DE PRODUCTION DE PARTICULES EXTRÊMEMENT FINES, PULVÉRISATEUR À JET APPROPRIÉ, SÉPARATEUR PNEUMATIQUE ET PROCÉDÉ D'EXPLOITATION CORRESPONDANT

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Abstract (en)  
[origin: WO2008046403A1] The invention relates to a method for producing very fine particles by means of a jet mill (1) comprising an integrated dynamic air separator (7). The rotational speed of a separator rotor (8) of the wind separator (7) and the inner amplification ratio  $V (= D_i/DF)$  are selected, adjusted or controlled in such a way that the peripheral speed of the operating means (B) reaches up to 0.8 times the speed of sound of the operating medium on an immersion tube, that is associated with the separator wheel (8), or outlet connections (20). The invention also relates to a jet mill (1) comprising an integrated dynamic air separator (7) for producing very fine particles. The rotational speed of the separator rotor (8) of the air separator (7) and the inner amplification ratio  $V (= D_i/DF)$  can be selected, adjusted or controlled in such a manner that the peripheral speed of the operating means (B) reaches up to 0.8 times the speed of sound of the operating means (B) on an immersion tube, that is associated with the separator wheel (8), or outlet connections (20). According to the invention, a dynamic air separator (7) having a separator wheel (8) is also provided. A source (tank 18a) for operating means (b) that has a higher speed of sound than air (343 m/s) is provided. Finally, the invention also relates to an operating method for an air separator (7) comprising a separator rotor or separator wheel (8). A fluid, in particular gas or vapour, is used as an operating agent (B), said fluid having a higher and in particular essentially higher speed of sound than air (343 m/s).

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