

Title (en)  
APPARATUS FOR PROCESSING A MATERIAL

Title (de)  
MATERIALBEARBEITUNGSVORRICHTUNG

Title (fr)  
APPAREIL DE TRAITEMENT D'UN MATERIAU

Publication  
**EP 1039970 A1 20001004 (EN)**

Application  
**EP 98903191 A 19980211**

Priority  
• GB 9800422 W 19980211  
• GB 9702796 A 19970212

Abstract (en)  
[origin: WO9835756A1] Apparatus for processing a material comprising a cyclone chamber (70); an impeller suction fan (71) for creating a cyclonic air stream within the cyclone chamber (70), the fan (71) having an inlet (14) and an outlet for passage of the air stream therethrough; an a feed assembly (23) for feeding material into the path of the cyclonic air stream for processing the material in the cyclone chamber (70), wherein the cyclonic air stream includes non-conflicting effects of vacuum forming centripetal vortices, parts of which travel at supersonic speeds; series of harmonics and subsequent subharmonics inherent in the apparatus and induced; supersonic resonance; standing wave; thermal shock; pressure changes; cavitation; the stresses of which in combination convert the potential energy of material conveyed by the cyclonic air stream to kinetic energy and a fan therefor.

IPC 1-7  
**B02C 19/18**; **F26B 5/00**; **C02F 11/12**

IPC 8 full level  
**B02C 13/08** (2006.01); **B02C 19/18** (2006.01); **F04D 29/28** (2006.01); **F26B 5/02** (2006.01); **F26B 17/10** (2006.01)

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