

Title (en)
APPARATUS FOR PROCESSING A MATERIAL

Title (de)
MATERIALBEARBEITUNGSVORRICHTUNG

Title (fr)
APPAREIL DE TRAITEMENT D'UN MATERIAU

Publication
EP 1039970 B1 20040922 (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.

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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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WO 9835756 A1 19980820; AT E276833 T1 20041015; AU 6000998 A 19980908; AU 742906 B2 20020117; DE 69826517 D1 20041028; EP 1039970 A1 20001004; EP 1039970 B1 20040922; GB 9702796 D0 19970402; ZA 981137 B 19980811

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