

Title (en)

APPARATUS AND METHOD FOR CIRCULAR VORTEX AIR FLOW MATERIAL GRINDING

Title (de)

VORRICHTUNG UND VERFAHREN ZUR ZERKLEINERUNG VON MATERIAL MITTELS TURBULENTER LUFTSTRÖMUNG

Title (fr)

INSTALLATION ET METHODE DE BROYAGE DE MATERIAUX AVEC ECOULEMENT TOURBILLONNAIRE DE L'AIR

Publication

**EP 1194242 A1 20020410 (EN)**

Application

**EP 00916384 A 20000316**

Priority

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- US 0006853 W 20000316
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Abstract (en)

[origin: WO0056460A1] A material grinding apparatus (10) includes an annular upper enclosure (12) defining an upper chamber (34) into which material to be ground is introduced from above, a conical lower enclosure (14) defining a lower chamber (36) and supported in tandem with the upper enclosure (12), and one or more angled slots (56) defined in the sidewall of the upper enclosure (12) through which compressed air is introduced relatively circumferentially into the upper chamber (34) so as to generate a circular vortex flow of air and material in the upper enclosure (12) for grinding and drying to take place. The air flow is exhausted by a pipe (92) through an upper end of the upper enclosure (12) and the dried ground material is discharged through an open lower end of the lower enclosure (14). The lower enclosure (14) is a downward continuation and extension of the upper enclosure (12) so as not to extend upwardly into nor past the upper chamber (34) thereof.

IPC 1-7

**B02C 19/06**

IPC 8 full level

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