

Title (en)
Pulverizing apparatus.

Title (de)
Prallzerkleinerer.

Title (fr)
Appareil de pulvérisation.

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Application
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Priority
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Abstract (en)
Pulverising apparatus comprising a generally cylindrical vessel (11), feed means (16) for feeding the material to be pulverized into said vessel, a plurality of circumferentially spaced fluid injection nozzles (24) each angled between a radius of the cylindrical vessel passing through the nozzles and a direction perpendicular to said radius, to inject fluid into the vessel and induce an axially flowing vortex (25) in the vessel having its axis generally centrally of the vessel, transverse wall means (12) at a location remote from the nozzles to intercept the vortex and to deflect a portion (26) of the fluid medium and entrained particles of material to effect a recirculation of the fluid medium within the vessel and thus to form a curtain surrounding the vortex. The material is pulverized by interparticle collisions and the curtain reduces high speed particle contact with the cylindrical wall of the vessel. An outlet (14) in said transverse wall allows a fraction of the pulverized material below a predetermined mass to pass generally along the axis of the vortex. The means (16) for feeding the material to be pulverized are arranged to feed the material to a point adjacent the axial centre of the vessel in the vicinity of said nozzles.

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B02C 19/061 (2013.01)

Citation (search report)
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• [Y] US 3719329 A 19730306 - RUZICKA J
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