

Title (en)  
DISINTEGRATING APPARATUS AND ITS OPERATION METHOD

Publication  
**EP 0048012 B1 19870121 (DE)**

Application  
**EP 81107227 A 19810914**

Priority  
DE 3034849 A 19800916

Abstract (en)  
[origin: ES8303116A1] A disintegrator for pulverizing substances of specific natures, having two rotors driven in opposite directions, is taught. The rotors carrying at least four rows of scoops are arranged concentrically in rings and engage alternately in each other, the said scoops transporting the substance from the inside, through the rows of scoops, to the outside and being inclined forwardly and outwardly in the direction of rotation. The scoops are made wear-resistant, and the rotors are made suitable for high-speed operation, in that the scoops are curved substantially like radial turbine blades, the concave curvature being located in each case at the front, as seen in the direction of rotation, and in that the rotors are secured to respective hollow shafts mounted rotatably upon a fixed common axis. This design produces a turbo-action which allows pulverization to take place as a result of repeated collision between particles of the substance in free flight. This makes it possible to operate the rotors at rotational speeds which produce extremely effective pulverization and activation. In order to obtain the best results, the disintegrator is operated according to a specific method.

IPC 1-7  
**B02C 13/20**; **B02C 13/288**

IPC 8 full level  
**B02C 13/22** (2006.01); **B02C 13/20** (2006.01); **B02C 13/28** (2006.01); **B02C 13/288** (2006.01)

CPC (source: EP US)  
**B02C 13/205** (2013.01 - EP US); **B02C 13/288** (2013.01 - EP US)

Cited by  
CN103167912A; US5009371A; EP0272713A3; US5460444A; DE3824769A1; EP0692309A1; WO8907012A1; DE102020115890A1; DE102020115890B4

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**EP 81107227 A 19810914**; AR 28675981 A 19810914; AT 81107227 T 19810914; AU 7526781 A 19810916; BR 8105929 A 19810916; DE 3034849 A 19800916; ES 505500 A 19810915; GR 810166000 A 19810909; JP 14600081 A 19810916; US 30202581 A 19810914