

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

Designated contracting state (EPC)
AT BE CH FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0048012 A2 19820324; **EP 0048012 A3 19830330**; **EP 0048012 B1 19870121**; AR 225243 A1 19820226; AT E25011 T1 19870215; AU 7526781 A 19820325; BR 8105929 A 19820608; DE 3034849 A1 19820429; DE 3034849 C2 19891228; ES 505500 A0 19830201; ES 8303116 A1 19830201; GR 75817 B 19840802; JP S57119847 A 19820726; US 4406409 A 19830927

DOCDB simple family (application)
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