

Title (en)  
Dispersing and grinding apparatus.

Title (de)  
Dispersion- und Mahlvorrichtung.

Title (fr)  
Appareil de broyage et de dispersion.

Publication  
**EP 0526699 A1 19930210 (EN)**

Application  
**EP 92107294 A 19920429**

Priority  
JP 21934491 A 19910806

Abstract (en)  
A dispersing and grinding apparatus which comprises a tank (6), a basket (9) disposed within the tank (6), containing a dispersing medium (8) and a stirring blade (7) disposed under the basket, wherein a material to be processed is made to flow within the tank, and the material to be processed entered in the basket (9) is dispersed by means of the dispersing medium (8). The basket (9) is formed into an annular groove shape constituted with a cylindrical inner wall (13) surrounding a stirring shaft (11), an outer wall (14) surrounding the inner wall (13) and a bottom wall (15) extending at the bottom portion of the inner wall and the outer wall. The dispersing medium is contained in the annular groove constituted with the inner wall and the outer wall. The stirring shaft (11) having a material-stirring blade (7) for stirring the material to be processed, extends through a cylindrical space formed at the center of the basket, and rotates under a free condition. Thus, the material-stirring shaft does not adversely affect the basket. The medium-stirring blade (10) for moving the dispersing medium (8) within the annular groove is disposed to the material-stirring shaft (11) or the medium-stirring shaft having the same core as the material-stirring shaft. <IMAGE>

IPC 1-7  
**B02C 17/16**

IPC 8 full level  
**B01F 3/12** (2006.01); **B01F 7/00** (2006.01); **B01F 7/16** (2006.01); **B01F 15/00** (2006.01); **B02C 17/16** (2006.01)

CPC (source: EP)  
**B01F 23/53** (2022.01); **B01F 27/192** (2022.01); **B01F 27/272** (2022.01); **B01F 27/806** (2022.01); **B02C 17/168** (2013.01)

Citation (search report)  
• [A] FR 2529473 A1 19840106 - PROCEDES STE NLE ET [FR]  
• [A] US 3329348 A 19670704 - POOTMANS JOHN D  
• [AD] DATABASE WPIL Section Ch, Week 8940, Derwent Publications Ltd., London, GB; Class J, AN 89-288459 & JP-A-1 210 020 (DAINIPPON TORYO K.K.) 23 August 1989  
• [AD] DATABASE WPIL Section Ch, Week 8449, Derwent Publications Ltd., London, GB; Class J, AN 84-305134 & JP-B-59 046 665 (DAINIPPON TORYO K.K.) 14 November 1984

Cited by  
US7931876B2; CN107396629A; CN107486065A; EP1072305A3; CN107716008A; DE4425906A1; CN107890804A; CN107230770A; CN114713060A; GB2318749A; GB2318749B; ITBO20130576A1; CN107855199A; DE19533369A1; DE19533369C2; US5967430A; CN103769276A; WO2016124618A1; WO9709115A3; WO9633019A1; KR101419704B1

Designated contracting state (EPC)  
CH DE ES GB LI

DOCDB simple family (publication)  
**EP 0526699 A1 19930210**; JP H0538425 A 19930219; JP H07106305 B2 19951115

DOCDB simple family (application)  
**EP 92107294 A 19920429**; JP 21934491 A 19910806