

Title (en)
DISPERSING DEVICE AND PROCESS

Title (de)
DISPERGIERVORRICHTUNG UND DISPERGIERVERFAHREN

Title (fr)
DISPOSITIF ET PROCEDE DE DISPERSION

Publication
EP 0850106 A1 19980701 (DE)

Application
EP 96938007 A 19960905

Priority
• DE 9601695 W 19960905
• DE 19533369 A 19950909

Abstract (en)
[origin: US5967430A] PCT No. PCT/DE96/01695 Sec. 371 Date Mar. 9, 1998 Sec. 102(e) Date Mar. 9, 1998 PCT Filed Sep. 5, 1996 PCT Pub. No. WO97/09115 PCT Pub. Date Mar. 13, 1997In order to reduce the conversion and cleaning effort between pre-dispersion by a dissolver (2) and fine dispersion by an agitating ball mill (3), it is proposed to combine both devices in a single container. The casing (31) of the agitating ball mill (3) is in the form of a toroidal annular channel with a central hole (34). The drive shaft (21) of the dissolver (2) runs through said central hole (34) in the agitating ball mill (3). Dispersion may take place in the dispersing device simultaneously or in succession. The agitating ball mill (3) is preferably lowered inside the container (1) along the common axis after a pre-determined time and caused to act on the substance to be dispersed (5).

IPC 1-7
B02C 17/16; **B01F 7/16**; **B01F 13/10**

IPC 8 full level
B01F 27/93 (2022.01); **B02C 17/16** (2006.01)

CPC (source: EP US)
B01F 33/8305 (2022.01 - EP US); **B01F 35/1453** (2022.01 - EP US); **B02C 17/168** (2013.01 - EP US)

Cited by
KR100834333B1; CN109550451A; DE202008010125U1; US7641137B2; US6830816B2; WO2006018168A1

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)
US 5967430 A 19991019; AT E191159 T1 20000415; DE 19533369 A1 19970313; DE 19533369 C2 19980610; DE 59604847 D1 20000504; DK 0850106 T3 20000904; EP 0850106 A1 19980701; EP 0850106 B1 20000329; ES 2144782 T3 20000616; GR 3033701 T3 20001031; JP 2949373 B2 19990913; JP H11501573 A 19990209; PT 850106 E 20000831; SI 0850106 T1 20000831; WO 9709115 A2 19970313; WO 9709115 A3 19970403

DOCDB simple family (application)
US 2983898 A 19980309; AT 96938007 T 19960905; DE 19533369 A 19950909; DE 59604847 T 19960905; DE 9601695 W 19960905; DK 96938007 T 19960905; EP 96938007 A 19960905; ES 96938007 T 19960905; GR 20000401391 T 20000615; JP 51078097 A 19960905; PT 96938007 T 19960905; SI 9630185 T 19960905