

Title (en)
Homogenising device

Title (de)
Homogenisiereinrichtung

Title (fr)
Dispositif d'homogénéisation

Publication
EP 1125625 B1 20070418 (DE)

Application
EP 01103854 A 20010216

Priority
DE 20002920 U 20000218

Abstract (en)
[origin: EP1825907A1] Materials at the bottom of the container enter the homogenizing unit and fall upon a rotor (4) driven by a shaft (30), and are dispersed by two sets of vanes. A pump rotor (6) is driven through a hollow shaft (36), coaxial with the first shaft. Vanes on the rotor force the homogenized material into a circumferential channel (20) from where it is either recirculated to the container or sent to storage. Materials at the bottom of the container enter the homogenizing unit along the vertical centerline to fall upon a rotor (4) driven by a shaft (30). They are then dispersed by two sets of vanes running between two sets of rings that form part of the fixed base (2). A pump rotor (6) is driven through a hollow shaft (36), coaxial with the first shaft. Vanes on the rotor force the homogenized material into a circumferential channel (20) from where it is either recirculated to the container or sent to storage. The shafts (30,36) are driven independently so that the rotors can in the same or in opposite directions.

IPC 8 full level
B01F 5/06 (2006.01); **B01F 7/00** (2006.01); **B01F 7/16** (2006.01)

CPC (source: EP US)
B01F 27/271 (2022.01 - EP US); **B01F 27/411** (2022.01 - EP US)

Citation (examination)
• FR 606508 A 19260615
• US 4786183 A 19881122 - CADEO ANGELO [CH]
• WO 9107223 A1 19910530 - FLOWCON OY [FI]
• EP 0335096 A2 19891004 - FRYMA MASCH AG [CH]

Cited by
EP2305370A1; DE102009047777A1; DE202016000169U1; EP3202489A2

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

DOCDB simple family (publication)
US 2001036125 A1 20011101; **US 6866412 B2 20050315**; AT E359859 T1 20070515; DE 20002920 U1 20000420; DE 50112352 D1 20070531; EP 1125625 A2 20010822; EP 1125625 A3 20020130; EP 1125625 B1 20070418; EP 1825907 A1 20070829; EP 1825907 B1 20121003; ES 2286048 T3 20071201

DOCDB simple family (application)
US 78463701 A 20010215; AT 01103854 T 20010216; DE 20002920 U 20000218; DE 50112352 T 20010216; EP 01103854 A 20010216; EP 07106354 A 20010216; ES 01103854 T 20010216