

Title (en)
High intensity mixer

Title (de)
Hochintensitätsmischer

Title (fr)
Mélangeur à haute intensité

Publication
EP 0885652 A1 19981223 (EN)

Application
EP 98201664 A 19980519

Priority
NL 1006311 A 19970613

Abstract (en)
The invention relates a device for treatment, such as mixing, of particulate material (P), comprising a conical mixing vessel (1) having a vertical axis (2), which vessel narrows in a downward direction and in which vessel at least one vertical mixing shaft (3) is rotatable, from which mixing shaft (3) a number of radial elements (4) project that carry paddles at the outer end, that extend until the vicinity of the sidewall of the vessel (1). According to the invention there are a great number of long and thin elements (4), whereas the mixing paddles (5) are relatively short and are symmetrical round the axis of the elements (4) in which the mixing shaft (3) has a high to very high number of revolutions (N) such as for instance 100 through 1.000 revolutions per minute, so that the product (P) to be treated is very intensively mixed in a very short time. <IMAGE>

IPC 1-7
B01F 13/00

IPC 8 full level
B02C 18/10 (2006.01); **B01F 7/16** (2006.01); **B01F 13/00** (2006.01)

CPC (source: EP)
B01F 33/50 (2022.01); **B01F 33/5011** (2022.01); **B01F 2101/20** (2022.01); **B01F 2101/23** (2022.01)

Citation (search report)

- [A] US 4721390 A 19880126 - LIDGREN LARS A A [SE]
- [A] US 4577973 A 19860325 - OCCELLI LUCIANO [IT]
- [DA] US 5344232 A 19940906 - NELSON CHARLES L [US], et al
- [A] US 5505538 A 19960409 - EARLE MICHAEL L [US]
- [A] EP 0306563 A1 19890315 - HOSOKAWA MICRON EUROP [NL]

Cited by
EP1791628A4; CN103041747A; EP1262226A3; CN110813460A; CN107282234A

Designated contracting state (EPC)
CH DE FR GB LI NL SE

DOCDB simple family (publication)
EP 0885652 A1 19981223; **EP 0885652 B1 20070321**; DE 69837365 D1 20070503; DE 69837365 T2 20071213; JP 4211015 B2 20090121; JP H1147573 A 19990223; NL 1006311 C2 19981215

DOCDB simple family (application)
EP 98201664 A 19980519; DE 69837365 T 19980519; JP 15083898 A 19980601; NL 1006311 A 19970613