

Title (en)  
Mixer

Title (de)  
Mischer

Title (fr)  
Mélangeur

Publication  
**EP 0945170 B1 20030709 (DE)**

Application  
**EP 99104828 A 19990311**

Priority  
DE 29805360 U 19980325

Abstract (en)  
[origin: US6227697B1] A mixer including a mixing vat (2), a mixer rotor (8) rotatable by a drive motor (6) around an essentially vertical axis of rotation (10) and a first mixing tool (14) mounted on the mixer rotor (8) so as to rotate around a first axis. Additionally located on the mixer rotor (8) is at least one further mixing tool (24), the mixing tools extending from above down into the mixing vat (2) or into the mixed substance. In order to optimize thorough mixing of the substances being mixed with minimum expense for construction, the mixer rotor (8) is provided with a set of gears (22) by which the first mixing tool (14) and a second rotatable mixing tool (18) are coupled such that the rotational speed of the second mixing tool (18) is greater than the rotational speed of the first mixing tool (14) by a predetermined factor.

IPC 1-7  
**B01F 15/00**; **B01F 7/30**; **B28C 7/02**

IPC 8 full level  
**B01F 7/16** (2006.01); **B01F 7/30** (2006.01); **B01F 15/00** (2006.01); **B28C 7/02** (2006.01); **G05D 13/62** (2006.01)

CPC (source: EP US)  
**B01F 27/85** (2022.01 - EP US); **B01F 27/95** (2022.01 - EP US)

Cited by  
CN101822955A; CN110882643A; CN114558476A; DE102016114557A1; DE102016114559A1; US10076124B2; US9907319B2; WO2009071322A3; DE202016001859U1; EP3231504A1; DE102016114551A1; DE102008060588A1

Designated contracting state (EPC)  
AT CH DE DK ES FR GB IT LI NL SE

DOCDB simple family (publication)  
**US 6227697 B1 20010508**; AT E244597 T1 20030715; DE 19913658 A1 19990930; DE 29805360 U1 19980528; DE 59906225 D1 20030814; DK 0945170 T3 20031020; EP 0945170 A1 19990929; EP 0945170 B1 20030709; ES 2204015 T3 20040416; PL 193043 B1 20070131; PL 332178 A1 19990927

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**US 27577999 A 19990325**; AT 99104828 T 19990311; DE 19913658 A 19990325; DE 29805360 U 19980325; DE 59906225 T 19990311; DK 99104828 T 19990311; EP 99104828 A 19990311; ES 99104828 T 19990311; PL 33217899 A 19990324