

Title (en)
Mixing device

Title (de)
Mischvorrichtung

Title (fr)
Dispositif de mélange

Publication
EP 0976442 A2 20000202 (DE)

Application
EP 99114782 A 19990728

Priority
• DE 29813742 U 19980731
• DE 29820936 U 19981123

Abstract (en)
Tungsten carbide is used as a wear resistant material, which is applied to the blade by welding. The rotor arm (24) projects radially from a rotor shaft (23) and holds a carrier (36) on which the mixer blade (38) is fitted. The carrier and blade are angled relative to the rotor arm axis. All items are joined demountably through bolts (34, 42, 44) for adjustment and replacement. The rotor arm is also protected by a tungsten carbide coated sleeve (40). A welded coating is preferred to a solid tungsten carbide part to retain the flexibility of the base metal, necessary to cope with shock loading.

Abstract (de)
Die Erfindung betrifft eine Mischvorrichtung mit einer Mischtrommel und einer an den Enden der Mischtrommel gelagerten Mischerwelle, wobei die Mischerwelle sich radial nach außen erstreckende Schaufelarme aufweist, an deren Enden bis nahe zur Mischtrommelwand reichende Schaufelblätter angeordnet sind. Erfindungsgemäß weisen die Schaufelblätter einen Verschleißschutz in Form einer Hartauftragsschweißung aus einem verschleißfesten Material auf. <IMAGE>

IPC 1-7
B01F 7/04

IPC 8 full level
B01F 7/00 (2006.01); **B01F 7/04** (2006.01); **B01F 15/00** (2006.01)

CPC (source: EP)
B01F 27/052 (2022.01); **B01F 27/071** (2022.01); **B01F 27/70** (2022.01)

Cited by
CN103817068A; CH708182A1; EP1149631A1; MD163Z5; EP1365853A4; WO2020048929A1; WO2019086116A1; WO2014198666A1; WO2014000733A1; WO2021155875A1; US10456758B2; EP3608014A1; EP2864027B1

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

DOCDB simple family (publication)
EP 0976442 A2 20000202; EP 0976442 A3 20020605

DOCDB simple family (application)
EP 99114782 A 19990728