

Title (en)
MIXING DEVICE

Title (de)
MISCHAPPARAT

Title (fr)
APPAREIL MÉLANGEUR

Publication
EP 2512646 A2 20121024 (DE)

Application
EP 10803370 A 20101214

Priority
• AT 19712009 A 20091214
• EP 2010007612 W 20101214

Abstract (en)
[origin: US2012275260A1] A mixing device has a frame, a cylindrical mixing container that is open toward the top, and a single-shaft agitator. A vertical agitator shaft extends into the mixing container from beneath. The agitator is an agitator without a stator and includes a rotor body arranged just above the container bottom in the mixing container. The rotor body is surrounded by a ring-shaped clearance between the rotor body and the container wall. Above the base plate fastened to the agitator shaft, the rotor body is provided with an inner clearance above the agitator shaft, mixing blades vertically arranged about the clearance, and flow channels arranged between the blades. The channels are delimited toward the top by a cover plate that is connected to the upper edges of the mixing blades. The cover plate is formed with a void arranged in the center and above the inner clearance.

IPC 8 full level
B01F 7/00 (2006.01); **A21C 1/02** (2006.01); **B01F 7/16** (2006.01)

CPC (source: EP US)
A21C 1/02 (2013.01 - EP US); **B01F 27/111** (2022.01 - EP US); **B01F 27/808** (2022.01 - EP US); **B01F 27/811** (2022.01 - EP US); **B01F 27/862** (2022.01 - EP US); **B01F 2215/0431** (2013.01 - EP US)

Citation (search report)
See references of WO 2011082776A2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
US 2012275260 A1 20121101; AT 509161 A1 20110615; AT 509161 B1 20121215; BR 112012014311 A2 20160705; CN 102770201 A 20121107; EP 2512646 A2 20121024; WO 2011082776 A2 20110714; WO 2011082776 A3 20111006; WO 2011082776 A4 20111201

DOCDB simple family (application)
US 201013516013 A 20101214; AT 19712009 A 20091214; BR 112012014311 A 20101214; CN 201080056822 A 20101214; EP 10803370 A 20101214; EP 2010007612 W 20101214