

Title (en)  
MIXING SYSTEM AND ITS USE

Title (de)  
MISCHSYSTEM UND DESSEN VERWENDUNG

Title (fr)  
SYSTÈME DE MÉLANGE ET SON UTILISATION

Publication  
**EP 2296795 B1 20121017 (DE)**

Application  
**EP 09753610 A 20090507**

Priority  
• EP 2009003253 W 20090507  
• DE 102008025507 A 20080528

Abstract (en)  
[origin: WO2009143955A1] The invention relates to a mixing system comprising a disposable container having flexible walls and a mixing device for one-time use. Known mixing systems comprise complex seals of the through opening of the mixer shaft. The novel mixing system aims to solve this problem of cost and safety in an advantageous manner. The mixing system according to the invention consists of at least a disposable container (1) having flexible walls and a mixing device which comprises at least an encapsulated drive (5) and a mixer shaft (3), wherein the drive (5) can be disposed of together with the mixer shaft (3) and the disposable container (1) after use. The mixing system according to the invention is preferably used in biotechnology and in the pharmaceutical industry for the mixing of liquids, the dissolution of solids or the multiplication of cells and microorganisms.

IPC 8 full level  
**B01F 35/60** (2022.01); **B01L 99/00** (2010.01); **C12M 1/00** (2006.01); **C12M 1/02** (2006.01)

CPC (source: EP US)  
**B01F 27/80** (2022.01 - EP US); **B01F 31/441** (2022.01 - EP US); **B01F 35/146** (2022.01 - EP US); **B01F 35/51** (2022.01 - EP US); **B01F 35/513** (2022.01 - EP US); **B01F 35/605** (2022.01 - EP US)

Citation (examination)  
• US 2001033111 A1 20011025 - CHOI KYUNG-SHIK [KR]  
• G.W. BECKER, D. BRAUN: "Kunststoff-Handbuch", vol. 1, 1 January 1990, HANSER, ISBN: 3-446-14416-1, pages: 480 - 483

Cited by  
US9700857B1; US10118141B2; US10850243B2; US11944945B2

Designated contracting state (EPC)  
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 SE SI SK TR

DOCDB simple family (publication)  
**DE 202009006889 U1 20090730**; DE 102008025507 A1 20091203; EP 2296795 A1 20110323; EP 2296795 B1 20121017; US 2011058448 A1 201110310; US 9669366 B2 20170606; WO 2009143955 A1 20091203

DOCDB simple family (application)  
**DE 202009006889 U 20090513**; DE 102008025507 A 20080528; EP 09753610 A 20090507; EP 2009003253 W 20090507; US 99146609 A 20090507