

Title (en)

MIXING DEVICE AND DISPOSABLE DEVICE FOR SUCH A MIXING DEVICE

Title (de)

MISCHVORRICHTUNG SOWIE EINMALVORRICHTUNG FÜR EINE SOLCHE MISCHVORRICHTUNG

Title (fr)

DISPOSITIF DE MELANGE ET DISPOSITIF JETABLE POUR UN TEL DISPOSITIF DE MELANGE

Publication

**EP 3241608 B1 20200408 (DE)**

Application

**EP 17154806 A 20170206**

Priority

EP 16167908 A 20160502

Abstract (en)

[origin: US2017312712A1] A mixing apparatus includes a mixing tank configured to receive substances, a rotor arranged in the mixing tank capable of driving a vane to rotate about an axial direction, a stator arranged outside the mixing tank and capable of driving the rotor to contactlessly magnetically rotate about the axial direction and capable of magnetically supporting the rotor with respect to the stator, and a security against tilting device that includes a bar extending in the axial direction and rotationally fixedly connected to the rotor, the security against tilting device having a limiting element fixed with respect to the mixing tank and cooperating with the bar, the security against tilting device being configured such that the bar is capable of rotating with respect to the limiting element and tilting of the rotor is limited by physical contact between the bar and the limiting element.

IPC 8 full level

**B01F 35/60** (2022.01)

CPC (source: EP US)

**B01F 33/452** (2022.01 - US); **B01F 33/4531** (2022.01 - EP US); **B01F 33/4532** (2022.01 - US); **B01F 35/513** (2022.01 - EP US); **B01F 35/5312** (2022.01 - US); **B01F 35/60** (2022.01 - US); **B01F 2035/352** (2022.01 - US); **B01F 2101/22** (2022.01 - US); **B01F 2101/44** (2022.01 - US)

Citation (examination)

WO 2017016640 A1 20170202 - SARTORIUS STEDIM BIOTECH GMBH [DE]

Cited by

EP4024675A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 3241609 A1 20171108**; EP 3241608 A1 20171108; EP 3241608 B1 20200408; US 11819813 B2 20231121; US 2017312712 A1 20171102; US 2017312713 A1 20171102

DOCDB simple family (application)

**EP 17166342 A 20170412**; EP 17154806 A 20170206; US 201715486859 A 20170413; US 201715581880 A 20170428