

Title (en)
CENTRIFUGE WITH REPLACEABLE ROTORS

Title (de)
ZENTRIFUGE MIT AUSTAUSCHBAREN ROTOREN

Title (fr)
CENTRIFUGEUSE AVEC ROTORS REMPLACEABLES

Publication
EP 3268122 B1 20190213 (DE)

Application
EP 16714769 A 20160311

Priority
• DE 102015103752 A 20150313
• EP 2016055306 W 20160311

Abstract (en)
[origin: WO2016146527A1] The invention relates to a dual centrifuge (10) which has the following: a driveshaft (16), a rotor (20), which is mounted on the driveshaft (16) and which can be removed axially in a removal direction (E), for a dual centrifuge, having at least one rotational unit (30); an opening (18) in the rotor (20), wherein an end region (16a) of the driveshaft (16) at least engages into said opening; and an additional drive mechanism (32) for the rotational unit or the rotational units (30). The dual centrifuge additionally has a design for operating various additional types of rotors; however, only one rotor (20, 40, 50) can be arranged on the driveshaft (16) at all times. The various rotor types (40, 50) are also adapted to the additional drive mechanism (32) for the rotational units (30) such that the function is not adversely affected. The invention is characterized by a design for operating at least one angular head rotor (40) and a swing-out rotor (50). For this purpose, the driveshaft (16) and the various rotor types (40, 50) are adapted to each other. The bearing (16), the driveshaft (16), and the various rotor types (40, 50) are adapted to one another such that each non-dual rotor (40, 50) has a geometry that is measured such that when the rotor (40, 50) is mounted, a drive means (32a) of the additional drive mechanism (32) for the rotational units (30) is arranged so as to not contact the mounted rotor (40, 50).

IPC 8 full level
B01F 9/00 (2006.01); **B04B 5/02** (2006.01); **B04B 5/04** (2006.01)

CPC (source: EP US)
B01F 29/10 (2022.01 - EP US); **B01F 29/15** (2022.01 - EP US); **B01F 35/30** (2022.01 - EP US); **B02C 17/08** (2013.01 - US); **B04B 5/02** (2013.01 - EP US); **B04B 5/0414** (2013.01 - EP US); **B04B 5/0421** (2013.01 - EP US); **B04B 5/10** (2013.01 - US); **B01F 35/33** (2022.01 - US); **B01F 2035/352** (2022.01 - US)

Citation (examination)
• EP 1450961 A1 20040901 - ALFA WASSERMANN INC [US]
• DE 2611679 A1 19770922 - HERAEUS CHRIST GMBH
• EP 1382398 A1 20040121 - HITACHI KOKI KK [JP]

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)
DE 102015103752 A1 20160915; EP 3268122 A1 20180117; EP 3268122 B1 20190213; US 10682616 B2 20200616; US 2018036694 A1 20180208; WO 2016146527 A1 20160922

DOCDB simple family (application)
DE 102015103752 A 20150313; EP 16714769 A 20160311; EP 2016055306 W 20160311; US 201615554579 A 20160311