

Title (en)
CENTRIFUGE

Title (de)
ZENTRIFUGE

Title (fr)
CENTRIFUGEUSE

Publication
EP 3145638 B1 20190206 (DE)

Application
EP 15713665 A 20150317

Priority
• DE 102014107294 A 20140523
• EP 2015055589 W 20150317

Abstract (en)
[origin: WO2015176841A1] The invention relates to a centrifuge (10) having a safety vessel (30) with a vessel wall (32), a rotor (17), which is arranged in the safety vessel (30) and is connected via a drive shaft (20) to a drive device (22), wherein at least the drive shaft (20) extends through the safety vessel (30), a cooling system for cooling an interior space (31) of the safety vessel (30), which comprises a heat transfer medium (19) for taking up heat from the safety vessel (30), a refrigerating unit (12) and conducting means (18) for the heat transfer medium (19). The invention is distinguished by the fact that the refrigerating unit (12) is based on the magnetocaloric effect, and the interior space (31) of the safety vessel (30) is cooled by a first cooling circuit (111), the magnetocaloric effect of the refrigerating unit (12) extracts heat from the heat transfer medium (19) of the first cooling circuit (111) and feeds the heat to a second cooling circuit (113).

IPC 8 full level
B04B 7/02 (2006.01); **B04B 15/02** (2006.01)

CPC (source: EP US)
B04B 7/02 (2013.01 - EP); **B04B 7/06** (2013.01 - US); **B04B 15/02** (2013.01 - EP US)

Cited by
DE102020119438A1

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 102014107294 A1 20151126; DE 102014107294 B4 20170209; EP 3145638 A1 20170329; EP 3145638 B1 20190206;
US 10894260 B2 20210119; US 2017189916 A1 20170706; WO 2015176841 A1 20151126

DOCDB simple family (application)
DE 102014107294 A 20140523; EP 15713665 A 20150317; EP 2015055589 W 20150317; US 201515313554 A 20150317