

Title (en)

TRANSPORT AND STORAGE CONTAINER FOR LIQUIDS WITH A STIRRING ROD ASSEMBLY

Title (de)

TRANSPORT- UND LAGERBEHÄLTER FÜR FLÜSSIGKEITEN MIT EINER RÜHRSTABANORDNUNG

Title (fr)

RÉCIPIENT DE TRANSPORT ET DE STOCKAGE DE LIQUIDES ÉQUIPÉ D'UN AGENCEMENT DE BARRES D'AGITATION

Publication

**EP 3268121 A2 20180117 (DE)**

Application

**EP 16703736 A 20160126**

Priority

- DE 102015204394 A 20150311
- DE 102015210904 A 20150615
- EP 2016051497 W 20160126

Abstract (en)

[origin: CA2977717A1] The invention relates to a stirring rod assembly (29) for connection to an agitator that can be combined with a container (20) for receiving liquids, wherein the container comprises in an upper base wall (26) a filling opening, which can be closed with a lid (28), for filling the container, wherein the stirring rod assembly has a rod-shaped stirring element carrier (30) which is designed as a hollow shaft for receiving a stirrer shaft, and stirring elements (32) which are pivotably connected to the stirring element carrier, such that, in an assembly configuration, the stirring elements are pivoted with a free end of a stirring element relative to a rotational axis of the stirring element carrier. According to the invention, a spring device is arranged between the stirring elements and the stirring element carrier in such a way that, in an operating configuration, the stirring elements are subjected to centrifugal force as a result of a rotation of the stirring element carrier and assume a pivoting position, which is dependent on the rotational speed of the stirring element carrier, with a stirring angle  $\alpha$  with respect to the axis of rotation, wherein the free ends of the stirring element are arranged at a stirring distance  $r$  from the axis of rotation and wherein the spring force, which increases with an increasing stirring angle, counteracts the centrifugal force.

IPC 8 full level

**B01F 7/00** (2006.01); **B01F 15/00** (2006.01)

CPC (source: CN EP IL KR RU US)

**B01F 27/00** (2022.01 - IL RU); **B01F 27/053** (2022.01 - CN EP IL KR US); **B01F 27/0542** (2022.01 - CN EP IL KR US);  
**B01F 27/0726** (2022.01 - CN EP IL KR US); **B01F 27/117** (2022.01 - CN EP IL KR US); **B01F 27/118** (2022.01 - KR);  
**B01F 33/86** (2022.01 - CN EP IL KR US); **B01F 35/00** (2022.01 - IL RU); **B01F 35/4111** (2022.01 - CN EP IL KR US);  
**B01F 2215/0422** (2013.01 - CN EP IL KR US)

Citation (search report)

See references of WO 2016142090A2

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**DE 102015210904 A1 20160915**; **DE 102015210904 B4 20180315**; AR 103770 A1 20170531; AU 2016228371 A1 20170921;  
AU 2016228371 B2 20190926; BR 112017019160 A2 20180502; BR 112017019160 B1 20230328; CA 2977717 A1 20160915;  
CA 2977717 C 20200331; CL 2017002231 A1 20180316; CN 107405585 A 20171128; CN 107405585 B 20210112; CN 205797138 U 20161214;  
CO 2017009896 A2 20170929; DK 3268121 T3 20191209; DK 3369477 T3 20211011; EP 3268121 A2 20180117; EP 3268121 B1 20191009;  
EP 3369477 A1 20180905; EP 3369477 B1 20210811; ES 2765867 T3 20200611; ES 2896798 T3 20220225; IL 254135 A0 20171031;  
IL 254135 B 20200730; JP 2018512269 A 20180517; JP 6412662 B2 20181024; KR 101946939 B1 20190520; KR 20170116107 A 20171018;  
MX 2017011114 A 20171128; MY 188721 A 20211225; PL 3268121 T3 20200430; PL 3369477 T3 20211227; RU 2017131897 A 20190411;  
RU 2017131897 A3 20190411; RU 2690341 C2 20190531; SA 517382275 B1 20210301; SG 11201707062W A 20170928;  
US 10561998 B2 20200218; US 2018056257 A1 20180301; WO 2016142090 A2 20160915; WO 2016142090 A3 20161110;  
ZA 201706128 B 20200226

DOCDB simple family (application)

**DE 102015210904 A 20150615**; AR P160100485 A 20160225; AU 2016228371 A 20160126; BR 112017019160 A 20160126;  
CA 2977717 A 20160126; CL 2017002231 A 20170904; CN 201620159163 U 20160302; CN 201680015028 A 20160126;  
CO 2017009896 A 20170927; DK 16703736 T 20160126; DK 18167888 T 20160126; EP 16703736 A 20160126; EP 18167888 A 20160126;  
EP 2016051497 W 20160126; ES 16703736 T 20160126; ES 18167888 T 20160126; IL 25413517 A 20170824; JP 2017547147 A 20160126;  
KR 20177025238 A 20160126; MX 2017011114 A 20160126; MY PI2017703269 A 20160126; PL 16703736 T 20160126;  
PL 18167888 T 20160126; RU 2017131897 A 20160126; SA 517382275 A 20170911; SG 11201707062W A 20160126;  
US 201615556000 A 20160126; ZA 201706128 A 20170908