

Title (en)  
STIRRER

Title (de)  
RÜHRER

Title (fr)  
AGITATEUR

Publication  
**EP 3031519 A1 20160615 (EN)**

Application  
**EP 14834280 A 20140730**

Priority  
• JP 2013164538 A 20130807  
• JP 2014070050 W 20140730

Abstract (en)  
Provided is a stirrer provided with a stirred tank that contains an object to be stirred, a stirring shaft rotatably attached within the stirred tank, and a stirring impeller attached to the stirring shaft. The stirring impeller has blades, and each blade has a blade body and a groove that opens in a rotational direction. The groove extends in a direction intersecting a direction passing through a rotation radius centered on the axial center of the stirring shaft.

IPC 8 full level  
**B01F 7/00** (2006.01); **B01F 7/18** (2006.01)

CPC (source: EP)  
**B01F 27/0721** (2022.01); **B01F 27/0723** (2022.01); **B01F 27/0726** (2022.01); **B01F 27/191** (2022.01); **B01F 27/9021** (2022.01)

Cited by  
CN108237623A; EP3741533A4; EP3498365A1; JP2019104008A; US9968896B1

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)  
**EP 3031519 A1 20160615; EP 3031519 A4 20170705; EP 3031519 B1 20210303**; CN 205667803 U 20161102; JP 2015033658 A 20150219; JP 6109006 B2 20170405; KR 200487605 Y1 20181011; KR 20160001226 U 20160414; TW 201515694 A 20150501; TW M495896 U 20150221; WO 2015019914 A1 20150212

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**EP 14834280 A 20140730**; CN 201490000957 U 20140730; JP 2013164538 A 20130807; JP 2014070050 W 20140730; KR 20167000011 U 20140730; TW 103127140 A 20140807; TW 103214102 U 20140807