

Title (en)

A method of and an arrangement for agitating fluid in a vessel

Title (de)

Verfahren und Vorrichtung zum Rühren einer Flüssigkeit in einem Gefäß

Title (fr)

Procédé et appareil pour agiter un fluide dans une cuve

Publication

EP 2865806 A1 20150429 (EN)

Application

EP 13189963 A 20131023

Priority

EP 13189963 A 20131023

Abstract (en)

The present invention relates to a method of and an arrangement for agitating fluid in a vessel in the manner described in the preambles of claims 1 and 15. The method and the arrangement of the present invention discuss a vessel (22) having an upright side wall (28), a bottom (24), a bottom fillet (26) and at least two agitators (30) supported to the side wall. The arrangement functions such that, when the agitators are arranged within the fluid in the vessel (22), a fluid flow is created by rotating each agitator (30), each fluid flow being directed towards the receiving edges (261, 264) of the fillet (26). The receiving edges divide each flow into two partial flows and the side faces (262, 263, 265, 266) of the receiving edges guide the partial flows to circulate in smaller volumes, i.e. in four smaller vortices ensuring efficient agitation in the entire area of the zone of agitation, i.e. the bottom area of the vessel round the fillet (26).

IPC 8 full level

D21D 5/28 (2006.01); **B01F 27/71** (2022.01)

CPC (source: EP)

B01F 27/2322 (2022.01); **B01F 27/2323** (2022.01); **B01F 27/711** (2022.01); **B01F 35/531** (2022.01); **D21D 5/28** (2013.01)

Citation (applicant)

- US 5711600 A 19980127 - TOUKONUMMI OLAVI [FI]
- US 5746890 A 19980505 - FORSLUND KJELL [SE]

Citation (search report)

- [XDY] US 5711600 A 19980127 - TOUKONUMMI OLAVI [FI]
- [YD] US 5746890 A 19980505 - FORSLUND KJELL [SE]

Cited by

CN105126689A; CN107596942A; CN109197098A

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 2865806 A1 20150429

DOCDB simple family (application)

EP 13189963 A 20131023