

Title (en)
AGITATOR SHAFT OF A FERMENTER AND METHOD FOR FASTENING AGITATING ARMS

Title (de)
RÜHRWERKWELLE EINES FERMENTERS UND BEFESTIGUNGSVERFAHREN VON RÜHRARMEN

Title (fr)
ARBRE AGITATEUR D'UN FERMENTATEUR ET PROCÉDÉ DE FIXATION DE BRAS D'AGITATION

Publication
EP 2948237 A1 20151202 (DE)

Application
EP 14728218 A 20140606

Priority
• CH 10912013 A 20130610
• EP 2014061838 W 20140606

Abstract (en)
[origin: CA2914454A1] In the case of an agitator shaft (1) of a fermenter of a biogas plant, comprising agitator brackets (12), which are arranged on a shaft wall (10) and on which at least one agitating arm (2), comprising an agitating arm fastening portion (20) and a blade carrier (21) can be connected to the agitator brackets (12) by means of fastening two agitating arm fastening plates (200) of the agitating arm (2), it is intended to provide a method that achieves easier and quicker assembly of an agitator shaft and integration in a fermenter in situ, whereby a considerable cost saving in the setting up of a fermenter is achieved. This is achieved by cutting out fastening holes in the agitator brackets (12) and cutting out through-holes in the agitating arm fastening plates (200) in such a way that a plurality of retaining ring bolts (3) can be arranged so as to pass completely through the fastening holes and the through-holes and can be riveted therein.

IPC 8 full level
B01F 7/00 (2006.01); **F16B 19/05** (2006.01)

CPC (source: CH EP US)
B01F 27/071 (2022.01 - CH EP US); **B01F 27/0726** (2022.01 - CH EP US); **B01F 27/1125** (2022.01 - US); **C12M 1/02** (2013.01 - CH); **F16B 5/04** (2013.01 - CH); **B01F 2101/44** (2022.01 - EP US); **F16B 5/04** (2013.01 - EP US); **F16B 19/05** (2013.01 - EP US); **Y02E 50/30** (2013.01 - EP)

Citation (search report)
See references of WO 2014198666A1

Citation (examination)
HEYMAN VIDEOCHANNEL: "Schließringbolzen Bobtail", 7 June 2013 (2013-06-07), pages 1, XP054976653, Retrieved from the Internet <URL:https://www.youtube.com/watch?v=e1MAWOkLL2U> [retrieved on 20160708]

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)
CH 708182 A1 20141215; **CH 708182 B1 20220930**; BG 2813 U1 20171115; CA 2914454 A1 20141218; CA 2914454 C 20230321; DE 202014010870 U1 20161214; EP 2948237 A1 20151202; HU 5045 U 20190828; JP 2016521983 A 20160728; US 2016121277 A1 20160505; WO 2014198666 A1 20141218

DOCDB simple family (application)
CH 10912013 A 20130610; BG 374417 U 20170530; CA 2914454 A 20140606; DE 202014010870 U 20140606; EP 14728218 A 20140606; EP 2014061838 W 20140606; HU 1600302 U 20140606; JP 2016518953 A 20140606; US 201414897268 A 20140606