

Title (en)
PLUG FLOW FERMENTER FOR A BIOGAS PLANT

Title (de)
PFROPFENSTROM-FERMENTER FÜR EINE BIOGASANLAGE

Title (fr)
FERMENTEUR À ÉCOULEMENT À BOUCHONS DESTINÉ À UNE INSTALLATION DE BIOGAZ

Publication
EP 3956432 A1 20220223 (DE)

Application
EP 20715780 A 20200320

Priority
• DE 102019109999 A 20190416
• EP 2020057757 W 20200320

Abstract (en)
[origin: WO2020212073A1] The invention relates to a plug flow fermenter (1) for a biogas plant, comprising a reactor container (2) embodied as longitudinal straight tubes. A substrate that is to be fermented, preferably by dry fermentation, can be fermented in the form of a plug flow with production of biogas. inside the reactor container (9). The reactor container (2) has at least one container inlet (10), via which the substrate to be fermented can be fed to the inside of the reactor (9), and at least one container outlet (12) that is arranged at a distance from the container inlet (10) in the direction of flow (x) of the plug flow, via which container outlet the fermented substrate can be discharged from the inside the reactor (9). A plurality of mixing devices (19) that are can be exchanged separately, are arranged inside the reactor container (9) when seen in the longitudinal direction of extension and thus in the direction of flow of the plug flow.

IPC 8 full level
C12M 1/107 (2006.01); **C12M 1/00** (2006.01); **C12M 1/06** (2006.01)

CPC (source: EP US)
C12M 21/04 (2013.01 - EP US); **C12M 27/02** (2013.01 - EP US); **C12M 29/02** (2013.01 - EP US); **Y02E 50/30** (2013.01 - EP)

Citation (search report)
See references of WO 2020212073A1

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)
WO 2020212073 A1 20201022; DE 102019109999 A1 20201022; EP 3956432 A1 20220223; US 2022213419 A1 20220707

DOCDB simple family (application)
EP 2020057757 W 20200320; DE 102019109999 A 20190416; EP 20715780 A 20200320; US 202017594414 A 20200320