

Title (en)

EXTRUDER UNIT AND DRYER EQUIPPED THEREWITH

Title (de)

EXTRUDEREINHEIT UND DAMIT AUSGERÜSTETE TROCKNUNGSANLAGE

Title (fr)

UNITÉ D'EXTRUSION ET INSTALLATION DE SÉCHAGE ÉQUIPÉE DE CELLE-CI

Publication

EP 2892856 A1 20150715 (DE)

Application

EP 13759494 A 20130905

Priority

- DE 102012108404 A 20120910
- EP 2013068330 W 20130905

Abstract (en)

[origin: WO2014037424A1] The invention relates to an extruder unit for a dryer (2) for biomass, in particular slurry, wherein the extruder unit (1) has a surface section (4) for the biomass to pass through and a plurality of apertures (3), wherein the extruder unit (1) comprises a base support (5) which is connected by means of a connecting section (6) to a driving element (7) and can be driven by means of the driving element (7) about an axis of rotation (8) and relative to the surface section (4), wherein the base support (5) comprises at least one support arm (9) having at least one scraper blade (10) which during a rotation of the base support (5) follows the shape of the face of the surface section (4) facing the scraper blade (10). According to the invention the base support (5) also comprises at least one breaker element (11) having at least one scraper blade (10) which during a rotation of the base support (5) also follows the shape of the face of the surface section (4) facing the scraper blade (10) and during the rotation of the base support (5) effects a crushing of constituents contained in the biomass which are retained by the surface section (4). The invention further relates to a dryer having at least one corresponding extruder unit.

IPC 8 full level

B01J 2/20 (2006.01); **B29C 47/52** (2006.01); **B29C 48/05** (2019.01); **B29C 48/30** (2019.01); **B29C 48/345** (2019.01); **B29C 48/47** (2019.01); **B29C 48/92** (2019.01); **B30B 11/22** (2006.01); **C02F 11/12** (2006.01); **F26B 17/04** (2006.01); **F26B 25/00** (2006.01)

CPC (source: EP US)

B01J 2/20 (2013.01 - EP US); **B01J 2/26** (2013.01 - EP US); **B29C 48/002** (2019.01 - EP US); **B29C 48/05** (2019.01 - EP US); **B29C 48/2522** (2019.01 - EP US); **B29C 48/272** (2019.01 - EP US); **B29C 48/301** (2019.01 - EP US); **B29C 48/345** (2019.01 - EP US); **B29C 48/465** (2019.01 - EP US); **B29C 48/47** (2019.01 - EP US); **B30B 11/228** (2013.01 - EP US); **C02F 11/123** (2013.01 - EP US); **C02F 11/13** (2018.12 - EP US); **F26B 1/00** (2013.01 - EP); **F26B 1/005** (2013.01 - EP US); **F26B 17/023** (2013.01 - EP); **B29C 48/92** (2019.01 - EP US); **C02F 11/121** (2013.01 - EP US); **F26B 17/04** (2013.01 - EP US); **F26B 2200/02** (2013.01 - EP US); **F26B 2200/18** (2013.01 - EP US)

Citation (search report)

See references of WO 2014037424A1

Citation (examination)

US 3063361 A 19621113 - GEHRKE EMIL J W

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 202012012605 U1 20131011; BR 112015002087 A2 20170704; DE 102012108404 A1 20140515; EP 2892856 A1 20150715; US 2015239164 A1 20150827; US 9827704 B2 20171128; WO 2014037424 A1 20140313

DOCDB simple family (application)

DE 202012012605 U 20120910; BR 112015002087 A 20130905; DE 102012108404 A 20120910; EP 13759494 A 20130905; EP 2013068330 W 20130905; US 201314427161 A 20130905