

Title (en)

EXTRUSION MACHINE AND METHOD FOR CHANGING A FRICTION WHEEL IN AN EXTRUSION MACHINE

Title (de)

STRANGPRESSMASCHINE SOWIE VERFAHREN ZUM WECHSELN EINES REIBRADES BEI EINER STRANGPRESSMASCHINE

Title (fr)

MACHINE À EXTRUDER, AINSI QUE PROCÉDÉ DE CHANGEMENT D'UNE ROUE DE FRICTION DANS UNE MACHINE À EXTRUDER

Publication

**EP 3912742 B1 20230726 (DE)**

Application

**EP 21178505 A 20180601**

Priority

- AT 504692017 A 20170602
- EP 18740084 A 20180601
- AT 2018060114 W 20180601

Abstract (en)

[origin: WO2018218270A2] The invention relates to an extrusion machine (1) comprising a main frame (5), a friction wheel (4), a tool-holding device (6), a locking device (11) and a tool unit (12) supported on the tool-holding device (6). A protection unit (28) with at least one first nozzle (32) and at least one second nozzle (33) are also provided. The nozzles (32, 33) are designed to dispense a gas which is free of gaseous oxygen. The first nozzle (32) is directed to a peripheral portion (29) of the friction wheel (4). The second nozzle (33) is mounted below a stripping area (30) of the tool unit (12). The invention also relates to an extrusion machine (1) having a sensor unit (25) between the tool holding device (6) and the tool unit (12) and to a method for controlling the distance between two tool components of the extrusion machine (1). The invention further relates to different extrusion machines (1) and to methods for changing friction wheels.

IPC 8 full level

**B21C 23/00** (2006.01); **B21C 23/21** (2006.01); **B21C 29/00** (2006.01); **B21C 31/00** (2006.01)

CPC (source: AT EP US)

**B21C 23/00** (2013.01 - AT); **B21C 23/005** (2013.01 - EP US); **B21C 23/212** (2013.01 - EP); **B21C 23/214** (2013.01 - EP); **B21C 23/215** (2013.01 - EP); **B21C 29/006** (2013.01 - EP); **B21C 31/00** (2013.01 - EP)

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

DOCDB simple family (publication)

**WO 2018218270 A2 20181206; WO 2018218270 A3 20190307**; AT 520033 A1 20181215; AT 520033 B1 20220115; EP 3630383 A2 20200408; EP 3630383 B1 20210721; EP 3912742 A2 20211124; EP 3912742 A3 20220302; EP 3912742 B1 20230726; EP 4151327 A1 20230322; EP 4151327 B1 20240904; EP 4169635 A1 20230426; EP 4169635 B1 20240904; PL 3630383 T3 20220307; PL 3912742 T3 20240129; US 11446721 B2 20220920; US 11679427 B2 20230620; US 11794229 B2 20231024; US 2020130036 A1 20200430; US 2022324004 A1 20221013; US 2022324005 A1 20221013; US 2022324006 A1 20221013

DOCDB simple family (application)

**AT 2018060114 W 20180601**; AT 504692017 A 20170602; EP 18740084 A 20180601; EP 21178505 A 20180601; EP 22204756 A 20180601; EP 22204757 A 20180601; PL 18740084 T 20180601; PL 21178505 T 20180601; US 201816618216 A 20180601; US 202217850057 A 20220627; US 202217850058 A 20220627; US 202217850061 A 20220627