

Title (en)
METHOD AND DEVICE FOR EXTRUDING CURVED EXTRUDED PROFILES

Title (de)
VERFAHREN UND VORRICHTUNG ZUM STRANGPRESSEN VON GEKRÜMMTEN STRANGPRESSPROFILIEN

Title (fr)
PROCEDE ET DISPOSITIF D'EXTRUSION DE PROFILES EXTRUDES COURBES

Publication
EP 1663535 B1 20071205 (DE)

Application
EP 04762676 A 20040818

Priority
• DE 2004001832 W 20040818
• DE 10340772 A 20030902

Abstract (en)
[origin: US2007170614A1] The invention relates to a method for extruding curved extruded profiles. The extruded profile (9) is formed in a matrix (4) mounted upstream in a counter beam (6) of an extruder system (1) and is subsequently curved or bent due to the effect of external forces and separated, supported and arranged into partial lengths in the extrusion flow by means of a separating robot connected to a higher control mechanism (12) and is discharged to a storage area (15) with the aid of a handling robot. The handling robot (14) is coupled to the separating robot (10) by means of the control mechanism (12) and, like said separating robot, is moved into a starting position in front of an extrusion press (1), wherein it assumes a maintenance position downstream from the separating robot (10), whereupon it moves together with the separating robot (10) into a final separating position (13) in a synchronous manner with respect to the beginning of the separating process, whereupon it supports and assumes the pressed extruded profile section (9) following the predetermined pressway thereof, whereupon the separating robot (10) returns to its original position for renewed synchronisation with the pressed extruded profile (9) and the handling robot (14) transports the separated partial length, deposits it (15) and subsequently returns to its maintenance position. A handling robot (14) is arranged downstream from the separating robot (13) in such a way that it covers the working area from at least the final separating position (13) to a depositing device (15). Said handling robot (14) comprises means (17) used to support a separated partial length of the extruded profile section.

IPC 8 full level
B21C 23/12 (2006.01)

CPC (source: EP KR US)
B21C 23/02 (2013.01 - KR); **B21C 23/12** (2013.01 - EP KR US)

Designated contracting state (EPC)
AT DE ES IT

DOCDB simple family (publication)
US 2007170614 A1 20070726; US 7815830 B2 20101019; AT E380078 T1 20071215; DE 10340772 A1 20050324;
DE 502004005664 D1 20080117; EP 1663535 A1 20060607; EP 1663535 B1 20071205; ES 2298792 T3 20080516; JP 2007504006 A 20070301;
JP 4478682 B2 20100609; KR 101058385 B1 20110822; KR 20060119881 A 20061124; WO 2005023447 A1 20050317

DOCDB simple family (application)
US 57023404 A 20040818; AT 04762676 T 20040818; DE 10340772 A 20030902; DE 2004001832 W 20040818; DE 502004005664 T 20040818;
EP 04762676 A 20040818; ES 04762676 T 20040818; JP 2006525033 A 20040818; KR 20067003762 A 20040818