

Title (en)

BRIDGE TOOL FOR PRODUCING EXTRUDED PROFILED ELEMENTS OF VARYING CROSS-SECTION

Title (de)

BRÜCKENWERKZEUG ZUR ERZEUGUNG VON STRANGPRESSPROFILIEN MIT VARIIERENDEM QUERSCHNITT

Title (fr)

OUTIL DE TYPE PONT SERVANT À PRODUIRE DES PROFILÉS EXTRUDÉS À SECTION TRANSVERSALE VARIABLE

Publication

EP 3645183 A1 20200506 (DE)

Application

EP 18745490 A 20180626

Priority

- DE 102017114371 A 20170628
- DE 2018100586 W 20180626

Abstract (en)

[origin: WO2019001635A1] The invention relates to a bridge tool for a device for directly extruding hollow profiled elements of variable wall thickness, comprising a die (6) and at least one mandrel element (5) having a first end facing the die opening and an opposite second end, the outer profile contour of a hollow profiled element being defined by the geometry of the die opening and the inner cross-section of a hollow profiled element being defined by the at least one mandrel element (5), characterized in that the at least one mandrel element (5) has at least one cut-out, in which an inner sliding mandrel is arranged, said inner sliding mandrel being mounted for movement in the axial direction, the inner sliding mandrel having different cross-sections in the first end region of the inner sliding mandrel facing the first end of the mandrel element.

IPC 8 full level

B21C 23/08 (2006.01); **B21C 23/21** (2006.01); **B21C 25/04** (2006.01); **B21C 25/08** (2006.01)

CPC (source: EP US)

B21C 23/085 (2013.01 - EP US); **B21C 23/217** (2013.01 - EP); **B21C 25/04** (2013.01 - EP US); **B21C 25/08** (2013.01 - EP US)

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 2019001635 A1 20190103; CN 110891704 A 20200317; CN 110891704 B 20220422; DE 102017114371 A1 20190103; EP 3645183 A1 20200506; EP 3645183 B1 20240403; US 2020147661 A1 20200514

DOCDB simple family (application)

DE 2018100586 W 20180626; CN 201880043703 A 20180626; DE 102017114371 A 20170628; EP 18745490 A 20180626; US 201816625879 A 20180626