Title (en)

Forming device for deforming tubes of heat exchangers

Title (de)

Vorrichtung zum Umformen von Wärmetauscherrohre

Title (fr)

Dispositif pour le formage de tubes d'échangeur de chaleur

Publication

EP 2719477 A3 20160907 (EN)

Application

EP 13156543 A 20130225

Priority

CZ 2012689 A 20121010

Abstract (en)

[origin: EP2719477A2] The present invention relates to the forming device for carrying out controlled deformation of tubes, especially tubes (4) of heat exchangers, which are placeable between the table and pressure bar of the mechanical press, whereby it comprises a lower forming plate (1) and an upper forming plate (2) that are coupled by guide devices. It further comprises die elements (12) arranged on mutually counter surfaces (11, 24) of the lower forming plate (1) and the upper forming plate (2). The die elements (12) are connected to a corresponding forming plate (1, 2) in an demountable and adjustable, whereas the forming plates (1, 2) being coupled to devices for adjusting the position of the processed tube (4) with respect to the forming plates (1, 2) along the longitudinal axis of the tube (4) and in the direction of shifting the tube(4) round its longitudinal axis, and to means which secures the tube (4) in the set position.

IPC 8 full level

B21D 22/02 (2006.01); **B21D 22/04** (2006.01); **B21D 37/02** (2006.01); **B21D 37/04** (2006.01); **B21D 43/00** (2006.01); **B21D 53/06** (2006.01)

CPC (source: EP)

B21D 22/025 (2013.01); **B21D 22/04** (2013.01); **B21D 37/02** (2013.01); **B21D 37/04** (2013.01); **B21D 43/003** (2013.01); **B21D 53/06** (2013.01)

Citation (search report)

- [XI] EP 0174758 A2 19860319 - HOBART CORP [US]
- [XA] EP 0097750 A2 19840111 - COMMISSARIAT ENERGIE ATOMIQUE [FR]
- [AD] DE 102008031158 A1 20100107 - BEHR GMBH & CO KG [DE]

Cited by

CN108326156A; CN110883166A; DE102021122883B3

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)

EP 2719477 A2 20140416; **EP 2719477 A3 20160907**; **EP 2719477 B1 20200923**; CZ 2012689 A3 20140423; CZ 305938 B6 20160511

DOCDB simple family (application)

EP 13156543 A 20130225; CZ 2012689 A 20121010