

Title (en)

IMPROVED METHOD FOR MANUFACTURING A BENT HEAT EXCHANGER

Title (de)

VERBESSERTES VERFAHREN ZUR HERSTELLUNG EINES GEBOGENEN WÄRMETAUSCHERS

Title (fr)

PROCÉDÉ AMÉLIORÉ POUR FABRIQUER UN ÉCHANGEUR DE CHALEUR PLIÉ

Publication

**EP 2323781 A4 20140409 (EN)**

Application

**EP 09805526 A 20090806**

Priority

- US 2009052910 W 20090806
- US 18844008 P 20080808

Abstract (en)

[origin: WO2010017336A2] An improved bending apparatus for bending a radiused corner at a window in a brazed heat exchanger core where no tubes and fins are located. A cylindrical mandrel and sliding pressure die are designed to completely surround the manifold in the areas of the window and provide a continuous, rolling contact area or profile support around the manifold as the bending moment is applied.

IPC 8 full level

**F28D 1/053** (2006.01); **B21D 7/024** (2006.01); **B21D 11/10** (2006.01); **B21D 53/08** (2006.01)

CPC (source: EP US)

**B21D 7/024** (2013.01 - EP US); **B21D 11/10** (2013.01 - EP US); **B21D 53/08** (2013.01 - EP US); **F28D 1/05383** (2013.01 - EP US); **F28D 2001/0273** (2013.01 - EP US); **F28D 2001/028** (2013.01 - EP US); **Y10T 29/4935** (2015.01 - EP US)

Citation (search report)

- [YD] JP 2005090806 A 20050407 - MATSUSHITA ELECTRIC IND CO LTD
- [Y] JP 2000154992 A 20000606 - DAIKIN IND LTD
- [Y] US 4727737 A 19880301 - BRYANT RALPH S [US]
- See references of WO 2010017336A2

Designated contracting state (EPC)

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DOCDB simple family (publication)

**WO 2010017336 A2 20100211**; **WO 2010017336 A3 20110623**; CN 102215995 A 20111012; EP 2323781 A2 20110525; EP 2323781 A4 20140409; US 2011185574 A1 20110804

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