

Title (en)

A method and an apparatus for the manufacture of heat exchanger rolls.

Title (de)

Verfahren und Vorrichtung zum Herstellen von Wärmeaustauscherrollen.

Title (fr)

Procédé et appareil de fabrication d'échangeurs de chaleur en forme de rouleaux.

Publication

**EP 0120828 A2 19841003 (EN)**

Application

**EP 84850099 A 19840328**

Priority

SE 8301730 A 19830329

Abstract (en)

A method and an apparatus for the manufacture of heat-exchanger rolls (10). The roll (10) consists of two webs (12, 14) of material which are wound together in superposed relationship. One (12) of the webs is corrugated and formed with protrusions/dents at the crests and bottoms of the corrugations. The second web (14) is provided with lengthwise ribs having the same configuration as the protrusion/dents. When the webs (12, 14) are wound into a roll (10) a radial pressure is exerted on the wheel (10) in order to press the ribs efficiently into the protrusions/dents and to achieve efficient and safe interconnection of the various winding turns making up the roll (10). To impart a tension in said webs (12, 14) a retarding (braking) force is applied thereon during the winding-on of the webs. The invention also comprises an apparatus for performing the method, the pressure and braking force on said webs being exerted by a pressure roller (56).

IPC 1-7

**B21D 53/02**

IPC 8 full level

**F28D 19/04** (2006.01); **B21D 13/04** (2006.01); **B21D 53/02** (2006.01); **B21D 53/04** (2006.01); **F24H 7/02** (2006.01)

CPC (source: EP KR)

**B21D 53/02** (2013.01 - KR); **B21D 53/027** (2013.01 - EP); **B21D 53/04** (2013.01 - KR)

Cited by

US7709076B2; US11340025B2

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI NL

DOCDB simple family (publication)

**EP 0120828 A2 19841003**; **EP 0120828 A3 19861230**; **EP 0120828 B1 19910925**; AT E67697 T1 19911015; AU 2615284 A 19841004; CA 1252618 A 19890418; DE 3485095 D1 19911031; DK 171384 A 19840930; DK 171384 D0 19840328; FI 80393 B 19900228; FI 80393 C 19900611; FI 841169 A0 19840323; FI 841169 A 19840930; JP H0360040 B2 19910912; JP S59215595 A 19841205; KR 840007836 A 19841211; KR 920006675 B1 19920814; NO 157807 B 19880215; NO 157807 C 19880525; NO 841140 L 19841001; SE 446601 B 19860929; SE 8301730 D0 19830329; SE 8301730 L 19840930

DOCDB simple family (application)

**EP 84850099 A 19840328**; AT 84850099 T 19840328; AU 2615284 A 19840327; CA 450593 A 19840327; DE 3485095 T 19840328; DK 171384 A 19840328; FI 841169 A 19840323; JP 5854484 A 19840328; KR 840001747 A 19840329; NO 841140 A 19840322; SE 8301730 A 19830329