

Title (en)

Method of manufacturing a multi-layer tube for guiding heat transfer fluids and multi-layer tube

Title (de)

Herstellungsverfahren für ein Mehrschichtrohr zur Führung eines Wärmeübertragungsfluids und Mehrschichtrohr

Title (fr)

Méthode de fabrication d'un tube multicouche pour le guidage des fluides de transfert de chaleur et tube multicouche

Publication

EP 1537921 B1 20070627 (DE)

Application

EP 04028534 A 20041202

Priority

DE 10357671 A 20031205

Abstract (en)

[origin: EP1537921A1] A first tube (24) is positioned with radial play within a second tube (18), and the tubes are connected via plastic forming of first and/or second tube. The second tube is positioned with radial play within a third tube (16), and connected by plastic forming of second and/or third tube. The forming force is applied to inner and/or the outer tube. All tubes have a circular cross section, and engage on each other or enclose a ring gap. The outermost tube is placed in a mold, and the inner tube is expanded hydraulically or by a forming tool, until it forms a bond with a neighboring tube. The compound tube (10) has an inner/outer layer of a material with high heat conductivity, a material with high structural stability at relevant temperatures, and an anti-corrosion layer (22).

IPC 8 full level

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CPC (source: EP)

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Cited by

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