

Title (en)

A pressed-in joint of a pipe and a vane of a heater, its production method and the device used for performing the method

Title (de)

Rohr-Rippe -Einpressverbindung für Heizungsvorrichtung, Herstellungsverfahren dafür und die zur Durchführung des Verfahrens verwendete Vorrichtung

Title (fr)

Joint par emmanchement d'un tube et d'une ailette pour appareil de chauffage, son procédé de production et dispositif utilisé pour effectuer le procédé

Publication

EP 2187159 A2 20100519 (EN)

Application

EP 09000697 A 20090120

Priority

CZ 2008727 A 20081114

Abstract (en)

A pressed-in joint (1) of a pipe (2) and a vane (3) of a heater (4) is created by means of an inner spiral groove (6) protruding to the outside surface of the pipe (2) as an outer spiral protrusion (7) imbedded with overlap in a hole (12) in the vane (3) or in a mouth (5) or a fringe (13) of the vane (3). The pressed-in joint (1) is made by means of a rotary rolling broach (14) furnished on its surface with at least two rolling balls (15, 15') forming the inner spiral groove (6) and the outer spiral protrusion (7) by rotating and sliding the broach (14) inside the pipe (2). The rotary rolling broach (14) has advantageously three rolling balls (15, 15', 15''), embedded with the possibility of adjusting their radial and axial positions. The inner spiral groove (6) causes sinuous flow of heat conducting media in the pipe (2) and better heat transfer to the pipe (2). The outer spiral protrusion (7) makes fix non-demountable connection of the pipe (2) with the vane (3) and improves the heat transfer conditions between the pipe (2) and the vanes (3).

IPC 8 full level

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Citation (applicant)

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