Title (en)

DEVICE FOR THE SUSPENSION OF HORIZONTAL HEAT-EXCHANGE TUBES ON A VERTICAL CARRIER TUBE, AND METHOD OF PRODUCING THIS DEVICE

Publication

EP 0364920 B1 19920506 (FR)

Application

EP 89119163 A 19891016

Priority

FR 8813703 A 19881018

Abstract (en)

[origin: JPH02150696A] PURPOSE: To avoid possibility of applying a large-amplitude vibration to horizontal tubes and rigidly connecting horizontal and vertical tubes by means of weld bead, which causes the breakage thereof, by forming collars for clamping the horizontal tubes for heat exchange at both sides of a vertical carrier tube. CONSTITUTION: A bottom support tube 2 is welded to the tower end of a vertical tube 1 by means of a weld bead 3, and a top support sleeve 4 is fitted onto the outer surface of the vertical tube with its lower end on the top edge of the bottom support sleeve 2. The top support sleeve is provided with two wings 5 and 6 of half-shell members having horizontal axes. The radii of curvature of these wings are slightly larger than those of the horizontal tubes to be supported thereby. First, horizontal tubes 7 and 8 are pressed to the half-shell members 5 and 6, and add-on half-shell members 9 and 10 having slightly larger radii of curvature than those of the horizontal tubes are brought into close contact with those tubes, so that the top and bottom edges of these add-on half-shell members contact the corresponding edges of the half-shell members fixed to the top sleeve. The add-on half-shell members 9 and 10 are welded to the half-shell members 5 and 6 fixed to the top support sleeve.

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IPC 8 full level

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CPC (source: EP US)

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Cited by

EP0775885A1; FR2741706A1; EP0965811A1; FR2780151A1; US10222139B2; US6173927B1; EP2547977B1; WO2020221965A1

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