Title (en)

HEATING TUBE FOR ABSORBER AND METHOD OF MANUFACTURING SAME

Title (de)

HEIZROHR FÜR ABSORBER UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)

TUBE CHAUFFANT POUR ABSORBEUR ET PROCEDE DE FABRICATION CORRESPONDANT

Publication

EP 0882939 A4 20000119 (EN)

Application

EP 97947889 A 19971210

Priority

- JP 9704554 W 19971210
- JP 33331996 A 19961213

Abstract (en)

[origin: EP0882939A1] The present invention provides a heat exchanger tube for an absorber, which has a degree of improvement of heat exchangeability matching the degree of increase of the heating surface area thereof, and whose mass per unit length is as small as that of a smooth surface tube so as not to increase the material cost. The heat exchanger tube 2 has a structure such that a plurality of raised portions 4 each having an arcuately curved shape in a circumferential direction of the tube, are disposed on an outer circumferential tube so as to extend in an axial direction of the tube, and are arranged in the circumferential direction of the tube such that recessed portions 6 are formed between adjacent ones of the plurality of raised portions 4, and an inner circumferential surface of the tube is corrugated corresponding to the raised and recessed portions 4, 6. Absorbent is dripped spread on the outer circumferential surface of the tube, while a cooling fluid flows through an inside of the heat exchanger tube so as to cool the absorbent on the outer circumferential surface of the tube. A plurality of circumferential groove portions 8 are formed on each of the raised portions 4 at an interval in the axial direction of the tube, each of which circumferential groove portions 8 extending in the circumferential direction of the tube and has a curbed shape at a bottom portion thereof in cross section in the axial and circumferential directions of the tube, so that local portions of the raised portions 4 which are interposed between adjacent ones of the circumferential groove portions 8 constitute mutually independent fins 10, respectively. Opposite end portions of each of the circumferential groove portions 8 in the circumferential direction of the tube have a width which gradually decreases toward the ends, such that the width is zero at the ends. <IMAGE>

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Citation (search report)

- No further relevant documents disclosed
- See references of WO 9826239A1

Cited by

DE112009000938B4; US6488079B2; WO0248631A3; WO2009103281A3; US7679034B2; US6968719B2; US6760972B2

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IT

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DOCDB simple family (application)

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