

Title (en)

Internally ribbed heat transfer tube.

Title (de)

Wärmeübertragungsrohr im Innenrippen.

Title (fr)

Tube de transfert thermique cannelé vers l'intérieur.

Publication

EP 0591094 A1 19940406 (EN)

Application

EP 93630072 A 19930930

Priority

US 95613992 A 19921002

Abstract (en)

The heat transfer tube (10) has internal ribs (14) to enhance the heat transfer performance of the tube (10). The ribs (14) may be substantially triangular or substantially rectangular in cross section but have specific ranges of values for critical parameters of the ribs. In a preferred embodiment, the ribs (14) are equally distributed around the inner circumference of the tube (10) and the tube (10) is made of a copper or copper alloy. <IMAGE>

IPC 1-7

F28F 1/40

IPC 8 full level

F28F 1/40 (2006.01)

CPC (source: EP KR)

F28F 1/40 (2013.01 - EP KR)

Citation (search report)

- [X] EP 0148609 A2 19850717 - HITACHI CABLE [JP]
- [X] DE 2552679 A1 19760616 - HITACHI LTD
- [X] DE 2828094 A1 19790118 - CARRIER CORP

Cited by

EP0696718A1; EP1270123A1; FR2855601A1; EP1482269A3; DE10038624A1; DE10038624C2; EP3483545A1; US2021041143A1; EP0692694A3; EP3508557A1; FR2837270A1; DE10210016A1; DE10210016B4; DE10210016B9; EP0893509A1; US6533030B2; US7048043B2; WO9612151A1; WO03076861A1; US5950718A; GB2610892A; GB2610892B; WO2022214811A1

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