

Title (en)
HEAT-TRANSFER TUBE AND HEAT EXCHANGER USING THE SAME

Title (de)
WÄRMEÜBERTRAGUNGSROHR UND WÄRMETAUSCHER DAMIT

Title (fr)
TUBE DE TRANSFERT DE CHALEUR ET ÉCHANGEUR DE CHALEUR L'UTILISANT

Publication
EP 4001821 A4 20220706 (EN)

Application
EP 19937853 A 20190718

Priority
JP 2019028190 W 20190718

Abstract (en)
[origin: EP4001821A1] A heat transfer tube includes: an elongated main body including a plurality of flow passages formed by bending a single plate material a number of times; and an extension portion corresponding to at least one of end portions of the single plate material in an elongated-section long-axis direction that is a direction along a long axis of a section of the main body. The extension portion is longer than a short axis of the section of the main body.

IPC 8 full level
F28F 1/02 (2006.01); **F28D 1/053** (2006.01); **F28F 1/12** (2006.01)

CPC (source: EP)
F28D 1/0391 (2013.01); **F28D 1/05383** (2013.01); **F28F 1/022** (2013.01); **F28F 1/16** (2013.01)

Citation (search report)

- [Y] KR 100378055 B1 20030329
- [Y] WO 2019026239 A1 20190207 - MITSUBISHI ELECTRIC CORP [JP], et al
- See also references of WO 2021009889A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 4001821 A1 20220525; EP 4001821 A4 20220706; EP 4001821 B1 20240306; CN 114072627 A 20220218; CN 114072627 B 20231222; JP 7262586 B2 20230421; JP WO2021009889 A1 20211125; WO 2021009889 A1 20210121

DOCDB simple family (application)
EP 19937853 A 20190718; CN 201980097777 A 20190718; JP 2019028190 W 20190718; JP 2021532632 A 20190718