

Title (en)
REINFORCED HEAT EXCHANGER COMPRISING A STACK OF PLATES

Title (de)
VERSTÄRKTER WÄRMETAUSCHER MIT EINEM STAPEL AUS PLATTEN

Title (fr)
ÉCHANGEUR DE CHALEUR RENFORCÉ COMPRENANT UN EMPILEMENT DE PLAQUES

Publication
EP 3598049 A1 20200122 (EN)

Application
EP 18184518 A 20180719

Priority
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Abstract (en)
The heat exchanger (2) comprises a stack of plates (4) comprising a lower plate (20) onto which the other plates (22) are stacked. The heat exchanger (2) also comprises a fixation plate (6) and a reinforcement plate (8) between the fixation plate (6) and the lower plate (20). The reinforcement plate (8) has reinforcing elements (24) obtained from a cut and fold of the reinforcement plate (8) material.

IPC 8 full level
F28D 9/00 (2006.01); **F28F 9/007** (2006.01)

CPC (source: EP US)
F28D 9/005 (2013.01 - EP US); **F28F 9/0075** (2013.01 - EP US); **F28D 2021/0089** (2013.01 - EP US); **F28F 2225/00** (2013.01 - EP); **F28F 2225/02** (2013.01 - US); **F28F 2280/06** (2013.01 - EP US)

Citation (applicant)
• US 2007084809 A1 20070419 - BRADU PASCAL [FR], et al
• EP 2267390 A2 20101229 - BEHR GMBH & CO KG [DE]

Citation (search report)
• [XY] EP 2963374 A1 20160106 - EISENMANN BJÖRN [DE]
• [X] DE 102009034752 A1 20110210 - MODINE EUROP GMBH [DE], et al
• [YD] US 2007084809 A1 20070419 - BRADU PASCAL [FR], et al
• [AD] EP 2267390 A2 20101229 - BEHR GMBH & CO KG [DE]

Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

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EP 3598049 A1 20200122; **EP 3598049 B1 20220810**; CN 112805526 A 20210514; CN 112805526 B 20240308; EP 3824237 A1 20210526; US 2021302111 A1 20210930; WO 2020016132 A1 20200123

DOCDB simple family (application)
EP 18184518 A 20180719; CN 201980046694 A 20190712; EP 19740533 A 20190712; EP 2019068841 W 20190712; US 201917261096 A 20190712