

Title (en)  
THERMAL MANAGEMENT SYSTEM AND METHOD

Title (de)  
SYSTEM UND VERFAHREN ZUR WÄRMEVERWALTUNG

Title (fr)  
SYSTÈME ET PROCÉDÉ DE GESTION THERMIQUE

Publication  
**EP 3505860 A3 20191009 (EN)**

Application  
**EP 18207545 A 20181121**

Priority  
US 201715821729 A 20171122

Abstract (en)  
A thermal management system includes a housing 101, and a monolithic core structure disposed within the housing 101. An outer surface of the core structure defines at least part of a first passageway 126. An inner surface of the core structure defines at least part of a second passageway 136. The core structure includes a separator wall that isolates a first flow passing through the first passageway 126 from a second flow passing through the second passageway 136. The first passageway 126 is in thermal communication with the second passageway 136. The core structure includes one or more heat exchanger features, or fins, that are positioned within the first passageway 126, the second passageway 136, or both the first and second passageways. The core structure may have a compliant segment coupled to two or more walls.

IPC 8 full level  
**F28F 7/02** (2006.01); **F28F 9/007** (2006.01)

CPC (source: CN EA EP)  
**F28D 7/06** (2013.01 - EA); **F28D 21/00** (2013.01 - CN); **F28F 7/02** (2013.01 - EP); **F28F 9/00** (2013.01 - CN); **F28F 9/007** (2013.01 - EP); **F28F 13/12** (2013.01 - EP); **F28D 1/035** (2013.01 - EP); **F28F 2265/26** (2013.01 - EP)

Citation (search report)

- [XA] EP 3054254 A1 20160810 - UNITED TECHNOLOGIES CORP [US]
- [A] WO 2017052798 A1 20170330 - WESTINGHOUSE ELECTRIC CO LLC [US]
- [A] US 2016116218 A1 20160428 - SHEDD TIMOTHY A [US], et al

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 3505860 A2 20190703**; **EP 3505860 A3 20191009**; AU 2018267568 A1 20190912; AU 2020204326 A1 20200716; AU 2020204326 B2 20220217; CN 110030862 A 20190719; CN 110030862 B 20210323; EA 038501 B1 20210907; EA 201892399 A2 20190531; EA 201892399 A3 20190830

DOCDB simple family (application)  
**EP 18207545 A 20181121**; AU 2018267568 A 20181120; AU 2020204326 A 20200629; CN 201811398971 A 20181122; EA 201892399 A 20181121