

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 A2 20190703 (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.

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