

Title (en)

HIGH-POWER DIE HEAT SINK WITH VERTICAL HEAT PATH

Title (de)

HOCHLEISTUNGSSCHIPKÜHLKÖRPER MIT VERTIKALEM WÄRMEPFAD

Title (fr)

DISSIPATEUR THERMIQUE À MATRICE HAUTE PUISSANCE À TRAJET DE CHALEUR VERTICAL

Publication

**EP 4334974 A1 20240313 (EN)**

Application

**EP 22722088 A 20220406**

Priority

- US 202117313380 A 20210506
- US 202117313412 A 20210506
- US 2022071576 W 20220406

Abstract (en)

[origin: WO2022236216A1] Disclosed are apparatuses and methods for fabricating the apparatuses. In one aspect, an apparatus includes a high-power die mounted on a backside of a package substrate. A heat transfer layer is disposed on the backside of the high-power die. A plurality of heat sink interconnects is coupled to the heat transfer layer, where each of the plurality of heat sink interconnects is directly coupled to the heat transfer layer in a vertical orientation.

IPC 8 full level

**H01L 23/367** (2006.01)

CPC (source: EP KR)

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