

Title (en)
HEADER ASSEMBLY HAVING INTEGRATED COOLING DEVICE

Title (de)
KOPFTEILBAUGRUPPE MIT INTEGRIERTER KÜHLEINRICHTUNG

Title (fr)
DISPOSITIF D'EMBASE A REFROIDISSEMENT INTEGRE

Publication
EP 1483816 A4 20060830 (EN)

Application
EP 03707865 A 20030211

Priority
• US 0304261 W 20030211
• US 7706702 A 20020214
• US 23139502 A 20020829

Abstract (en)
[origin: WO03069749A1] A header assembly 700 including a base 702 and a platform 800 extending through the base 702 and substantially perpendicular thereto. The platform 800 includes conductive pathways 806 that connect electrical components on either side of the base 702, and the conductive pathways cooperate to form a connector 900 at the first end of the platform 800. A laser 1002 is mounted on top of a thermoelectric cooler 900 that is directly joined to the second end of the platform 800. The laser 1002 and thermoelectric cooler 900 are enclosed in a hermetic chamber cooperatively defined by the base 702, the platform 800, and a cap that is joined to the base 702. A photodiode 1004 optically coupled with the laser 1002 and a thermistor thermally coupled with the laser 1002 cooperate with the thermoelectric cooler 900 and a control circuit to facilitate control of the performance of the laser 1002.

IPC 8 full level
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CPC (source: EP)
H01S 5/02212 (2013.01); **H05K 7/20445** (2013.01); **H01L 2924/19107** (2013.01); **H01S 5/02415** (2013.01)

Citation (search report)
• [XA] US 4953006 A 19900828 - KOVATS TIBOR F I [CA]
• See references of WO 03069749A1

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