

Title (en)
COOLING DEVICE

Title (de)
KÜHLVORRICHTUNG

Title (fr)
DISPOSITIF DE REFROIDISSEMENT

Publication
EP 2233861 A4 20120822 (EN)

Application
EP 08862712 A 20081021

Priority
• JP 2008069049 W 20081021
• JP 2007327771 A 20071219

Abstract (en)
[origin: EP2233861A1] A cooling device is made compact without impairing the desired cooling efficiency. A secondary cooling device (70) has a heat exchanging part (46) for condensing a vaporized coolant flowing in a condensation path (47) into a liquid coolant, and an evaporator (EP) arranged under the heat exchanging part (46) to vaporize the liquid coolant flowing in an evaporation pipe (52) into the vaporized coolant. The secondary cooling device (70) has a plurality of natural circulation circuits (72) independent of one another. In each natural circulation circuit (72), the liquid coolant flows down from the condensation path (47) of the heat exchanging part (46) to the evaporation pipe (52) of the evaporator (EP) through a liquid piping (48), and the vaporized coolant flows from the evaporation pipe (52) of the evaporator (EP) to the condensation path (47) of the heat exchanging part (46) through a gas piping (50).

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CPC (source: EP US)
F25B 25/005 (2013.01 - EP US); **F25D 11/025** (2013.01 - EP US); **F28D 15/0266** (2013.01 - EP US); **F28D 15/0275** (2013.01 - EP US)

Citation (search report)
• [X] US 5490390 A 19960213 - BOYETTE JAMES H [US], et al
• See references of WO 2009078218A1

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