

Title (en)  
COOLING DEVICE

Title (de)  
KÜHLVORRICHTUNG

Title (fr)  
DISPOSITIF DE REFROIDISSEMENT

Publication  
**EP 2233861 B1 20160518 (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).

IPC 8 full level  
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CPC (source: EP US)  
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