

Title (en)  
SUPERCOOLING APPARATUS

Title (de)  
UNTERKÜHLUNGSVORRICHTUNG

Title (fr)  
APPAREIL DE SURFUSION

Publication  
**EP 1674806 A4 20140226 (EN)**

Application  
**EP 05748863 A 20050609**

Priority  
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Abstract (en)  
[origin: EP1674806A1] A subcooling unit (200) includes a refrigerant passage (205) connected to liquid side communication pipes (21, 22) of a refrigerating apparatus (10). When a subcooling compressor (221) is operated, subcooling refrigerant circulates in the subcooling refrigerant circuit (220) to perform a refrigeration cycle, thereby cooling refrigerant of the refrigerating apparatus (10) which flows in the refrigerant passage (205). A controller (240) of the subcooling unit (200) receives the detection value of a suction pressure sensor (234) and a refrigerant temperature sensor (236). The controller (240) utilizes input signals from the sensors (234, 236) to control driving operation of the subcooling compressor (221) on the basis of information obtained within the subcooling unit (200). Thus, the operation of the subcooling compressor (221) can be controlled without sending and receiving a signal to and from the refrigerating apparatus (10) to which the subcooling unit (200) is incorporated.

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• [X] GB 2273763 A 19940629 - TOSHIBA KK [JP]  
• [X] JP H10185333 A 19980714 - DAIKIN IND LTD  
• [X] JP S59120876 U 19840815  
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• See references of WO 2005121654A1

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