

Title (en)

EVAPORATOR REFRIGERANT SATURATION DEMAND DEFROST

Title (de)

ABTAUVORGANG BEI BEDARF NACH KÜHLMITTELSÄTTIGUNG BEI EINEM VERDUNSTER

Title (fr)

DÉGIVRAGE À LA DEMANDE À SATURATION DE RÉFRIGÉRANT D'ÉVAPORATEUR

Publication

EP 2588819 A2 20130508 (EN)

Application

EP 11730522 A 20110629

Priority

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- US 2011042311 W 20110629

Abstract (en)

[origin: WO2012003202A2] A method is disclosed for controlling initiation of a defrost cycle of an evaporator heat exchanger of a refrigeration system operatively associated with a refrigerated transport cargo box. The method includes the steps of establishing an return air-saturation temperature differential equal to the difference of a sensed air temperature of an air flow returning from the cargo box to pass over the heat exchange surface of the evaporator heat exchanger minus a refrigerant saturation temperature of a flow of refrigerant passing through the evaporator heat exchanger, comparing the return air-saturation temperature differential to a set point threshold defrost temperature differential, and if the return air-saturation temperature differential exceeds the set point threshold defrost temperature differential, initiating a defrost cycle for defrosting the evaporator heat exchanger.

IPC 8 full level

F25D 21/00 (2006.01)

CPC (source: EP US)

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Citation (search report)

See references of WO 2012003202A2

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