

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 B1 20191211 (EN)**

Application

**EP 11730522 A 20110629**

Priority

- US 36065110 P 20100701
- 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)

**F25B 47/02** (2013.01 - US); **F25D 21/006** (2013.01 - EP US); **F25B 2700/2117** (2013.01 - EP US); **F25B 2700/21172** (2013.01 - EP US)

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