

Title (en)

FAULT DETECTION IN A COOLING SYSTEM WITH A PLURALITY OF IDENTICAL COOLING CIRCUITS

Title (de)

FEHLERERKENNUNG IN EINEM KÜHLSYSTEM MIT EINER MEHRZAHL VON GLEICHARTIGEN KÜHLKREISLÄUFEN

Title (fr)

DÉTECTION DE DÉFAUT DANS UN SYSTÈME DE REFROIDISSEMENT COMPORTANT UNE PLURALITÉ DE CIRCUITS DE REFROIDISSEMENT IDENTIQUES

Publication

EP 2932814 A1 20151021 (EN)

Application

EP 13811701 A 20131204

Priority

- US 201261734414 P 20121207
- US 201314093808 A 20131202
- US 2013073009 W 20131204

Abstract (en)

[origin: US2014163744A1] In a cooling system having a plurality of identical cooling circuits, fault detection is determined by a controller if monitored operating parameters of the cooling circuits differ from each other by an appreciable amount. In an aspect, the controller uses a comparison of the operating parameters of a cooling circuit to a snapshot of the operating parameters of that cooling circuit taken after the cooling circuit is determined to be operating properly after start-up. In an aspect, the controller uses known operating parameters of a cooling circuit and a system model of the cooling circuit to calculate remaining operating parameters of the cooling circuit (system model operating parameters) and uses a comparison of the system model operating parameters to the monitored operating parameters.

IPC 8 full level

H05K 7/20 (2006.01); **F24F 11/00** (2006.01)

CPC (source: EP US)

F24F 11/30 (2017.12 - EP US); **F24F 11/38** (2017.12 - EP US); **F24F 11/49** (2017.12 - EP US); **H05K 7/20836** (2013.01 - EP US); **F24F 11/32** (2017.12 - EP US)

Citation (search report)

See references of WO 2014089154A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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