

Title (en)

CARBON DIOXIDE BASED AUXILIARY COOLING SYSTEM

Title (de)

KOHLNSTOFFDIOXIDBASIERTES ZUSATZKÜHLSYSTEM

Title (fr)

SYSTÈME DE REFROIDISSEMENT AUXILIAIRE À BASE DE DIOXYDE DE CARBONE

Publication

EP 3040645 A3 20161102 (EN)

Application

EP 15202000 A 20151222

Priority

US 201414578668 A 20141222

Abstract (en)

[origin: EP3040645A2] The present application provides a cascade refrigeration system (100). The cascade refrigeration system may include a first side cycle (110), a second side cycle (120) with a second side cycle carbon dioxide refrigerant (310), and an auxiliary cooling system (330) to cool the second side cycle carbon dioxide refrigerant in the event of a power outage. The auxiliary cooling system includes an auxiliary carbon dioxide refrigerant.

IPC 8 full level

F25B 7/00 (2006.01); **F25B 9/00** (2006.01)

CPC (source: EP US)

F25B 7/00 (2013.01 - EP US); **F25B 9/008** (2013.01 - EP US); **F25B 5/02** (2013.01 - EP US); **F25B 40/00** (2013.01 - EP US); **F25B 2309/061** (2013.01 - EP US); **F25B 2400/06** (2013.01 - EP US); **F25B 2400/075** (2013.01 - EP US)

Citation (search report)

- [X] US 2013227979 A1 20130905 - KASUKA JUNICHIRO [JP], et al
- [I] WO 2014100330 A1 20140626 - MARTIN J SCOTT [US], et al
- [A] US 2010031697 A1 20100211 - HINDE DAVID K [US], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3040645 A2 20160706; EP 3040645 A3 20161102; AU 2015261588 A1 20160707; BR 102015032005 A2 20161025; CA 2911696 A1 20160622; MX 2015017458 A 20160621; US 2016178244 A1 20160623

DOCDB simple family (application)

EP 15202000 A 20151222; AU 2015261588 A 20151125; BR 102015032005 A 20151218; CA 2911696 A 20151109; MX 2015017458 A 20151216; US 201414578668 A 20141222