

Title (en)
POWER TAKEOFF-DRIVEN REFRIGERATION

Title (de)
ZAPFWELLENBETRIEBENE KÜHLUNG

Title (fr)
RÉFRIGÉRATION ENTRAÎNÉE PAR PRISE DE FORCE

Publication
EP 4077002 A1 20221026 (EN)

Application
EP 20902441 A 20201221

Priority

- US 201962951505 P 20191220
- US 202017086692 A 20201102
- US 2020066449 W 20201221

Abstract (en)
[origin: WO2021127647A1] A system for PTO-driven refrigeration includes a generator that is configured to be mechanically connected to a power takeoff (PTO) and a converter that is configured to receive AC power from the generator and is operable to convert the AC power to DC power. The generator is connected to a charge controller that is connected to an energy storage element. The energy storage element is connected to a controller configured to receive DC power and provide AC power to a motor. The motor may be mechanically connectable to a refrigeration system. The energy storage element is further configured to receive power from a second charge controller that receives power via an AC power input or solar system.

IPC 8 full level
B60H 1/32 (2006.01); **B60P 3/20** (2006.01); **B60R 16/03** (2006.01); **F25B 27/00** (2006.01); **F25D 11/00** (2006.01)

CPC (source: EP)
B60H 1/00428 (2013.01); **B60H 1/3232** (2013.01); **F25B 49/005** (2013.01); **B60H 1/3222** (2013.01); **B60P 3/20** (2013.01); **B60R 16/03** (2013.01); **F25B 2500/08** (2013.01); **F25B 2500/26** (2013.01); **F25D 29/003** (2013.01)

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2021127647 A1 20210624; CA 3162325 A1 20210624; EP 4077002 A1 20221026; EP 4077002 A4 20240110; MX 2022007561 A 20220719

DOCDB simple family (application)
US 2020066449 W 20201221; CA 3162325 A 20201221; EP 20902441 A 20201221; MX 2022007561 A 20201221