

Title (en)
POWER TAKEOFF-DRIVEN REFRIGERATION

Title (de)
ZAPFWELLENBETRIEBENE KÜHLUNG

Title (fr)
RÉFRIGÉRATION ENTRAÎNÉE PAR PRISE DE FORCE

Publication
EP 4077002 A4 20240110 (EN)

Application
EP 20902441 A 20201221

Priority

- US 201962951505 P 20191220
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- 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
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CPC (source: EP)
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Citation (search report)

- [Y] WO 2018226389 A1 20181213 - CARRIER CORP [US]
- [Y] US 10240847 B1 20190326 - THOMAS JR ROBERT P [US]
- [Y] WO 2008085152 A1 20080717 - CARRIER CORP [US], et al
- [Y] EP 3536552 A1 20190911 - CARRIER CORP [US]
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- See references of WO 2021127647A1

Designated contracting state (EPC)
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