

Title (en)

UNINTERRUPTIBLE POWER SUPPLY SYSTEM WITH ENGINE START-UP

Title (de)

UNTERBRECHUNGSFREIES STROMVERSORGUNGSSYSTEM MIT MOTORSTART

Title (fr)

SYSTÈME D'ALIMENTATION ÉLECTRIQUE SANS COUPURE AVEC DÉMARRAGE DE MOTEUR

Publication

EP 4182550 A1 20230524 (EN)

Application

EP 21841241 A 20210712

Priority

- US 202016926912 A 20200713
- US 2021041213 W 20210712

Abstract (en)

[origin: WO2022015617A1] An uninterruptible power supply system (10) has a regulated power source (12), an electrical generator (18) electrically interconnected to the regulated power source (12), an engine (19) having a main shaft integral with or coupled to the shaft of the electrical generator (18), a rotating rectifier (38) mounted onto a shaft of the electrical generator, a mains power supply (20), a switch (22) connected between the electrical generator, the mains power supply and a synchronous machine (13) of the regulated power source (12), a synchronous generator (31), and an uninterruptible load (55). The regulated power source (12) has a housing (15), a synchronous machine (13), a synchronous generator (31), and a flywheel (16) sharing a common shaft (14). The electrical generator has a shaft coupled to a combustion engine. The switch transfers power from the synchronous machine to the electrical generator to cause the electrical generator to rotate its shaft or the main shaft of the engine. A short-stop load (59) is supplied power from the electrical generator.

IPC 8 full level

F02D 25/00 (2006.01)

CPC (source: EP)

F02D 29/06 (2013.01); **F02D 41/062** (2013.01); **H02P 9/08** (2013.01); **H02P 9/14** (2013.01); **H02P 9/302** (2013.01); **H02J 9/08** (2013.01);
H02J 15/007 (2020.01)

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 2022015617 A1 20220120; CA 3189412 A1 20220120; EP 4182550 A1 20230524; EP 4182550 A4 20240807; MX 2023000675 A 20230213

DOCDB simple family (application)

US 2021041213 W 20210712; CA 3189412 A 20210712; EP 21841241 A 20210712; MX 2023000675 A 20210712