

Title (en)
AN INTEGRATED ELECTRIC PROPULSION ASSEMBLY

Title (de)
INTEGRIERTE ELEKTRISCHE ANTRIEBSEINHEIT

Title (fr)
ENSEMBLE DE PROPULSION ÉLECTRIQUE INTÉGRÉ

Publication
EP 4070434 A4 20231213 (EN)

Application
EP 20895249 A 20200918

Priority

- US 201916703225 A 20191204
- US 202016910255 A 20200624
- US 2020051396 W 20200918

Abstract (en)
[origin: WO2021112940A1] An integrated electric propulsion assembly includes a stator including at least a first magnetic element generating first magnetic field. The assembly includes a propulsor with an integrated rotor, the propulsor further including a hub rotatably mounted to the stator and at least a second magnetic element affixed to the hub, the at least a second magnetic element generating a second magnetic field. At least one of the first magnetic field and the second magnetic field varies with respect to time, wherein the varied magnetic field includes generating a magnetic force between the at least a first magnetic element and the at least a second magnetic element, and the magnetic force causes the hub to rotate with respect to the stator.

IPC 8 full level
H02K 1/00 (2006.01); **B64C 29/00** (2006.01); **B64D 27/24** (2006.01); **H02K 7/14** (2006.01); **H02K 9/06** (2006.01); **H02K 11/33** (2016.01)

CPC (source: EP)
B64D 27/24 (2013.01); **H02K 7/14** (2013.01); **H02K 9/06** (2013.01); **B64C 29/0025** (2013.01); **Y02T 50/40** (2013.01); **Y02T 50/60** (2013.01)

Citation (search report)

- [X] WO 2019164933 A1 20190829 - WRIGHT ELECTRIC INC [US]
- [X] US 2012267974 A1 20121025 - LEBENBOM MATTHEW A [US]
- [X] US 2019329858 A1 20191031 - BEVIRT JOEBEN [US], et al
- [X] US 2018219464 A1 20180802 - NEWMARK G NOAH [US], et al
- See also references of WO 2021112940A1

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

DOCDB simple family (publication)
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