

Title (en)
TURBOMACHINE WITH UNDUCTED TWIN PROPELLERS

Title (de)
TURBOMASCHINE MIT UNGEFASSTEN DOPPELPROPELLERN

Title (fr)
TURBOMACHINE À DOUBLE HÉLICES NON CARÉNÉES

Publication
EP 3870827 A1 20210901 (FR)

Application
EP 19813119 A 20191025

Priority
• FR 1859925 A 20181026
• FR 2019052557 W 20191025

Abstract (en)
[origin: WO2020084271A1] The invention concerns an aircraft turbomachine comprising an outer housing (2) delimiting, with an inner hub (3), a flow path (1) for a gas stream in which a low-pressure turbine is arranged, configured to rotate a low-pressure shaft; the turbomachine comprising, in the direction of flow of the gas stream, a first propeller (31); and a second propeller (32) downstream from the first propeller, the first propeller (31) being rotated by the low-pressure shaft and the second propeller being rotated by an electric motor (70), the second propeller (32) further being arranged at a distance of between 1.5 and 4 chord lengths (LC1) from the first propeller (31) defined between the respective pitch axes (A31, A32) of each of the first and second propellers.

IPC 8 full level
F02K 3/072 (2006.01); **F01D 15/10** (2006.01)

CPC (source: EP US)
B60L 50/13 (2019.02 - EP); **B64C 11/306** (2013.01 - US); **B64C 11/48** (2013.01 - US); **B64D 27/026** (2024.01 - EP); **B64D 27/10** (2013.01 - US); **B64D 27/24** (2013.01 - EP US); **F01D 15/10** (2013.01 - EP); **F02B 61/04** (2013.01 - US); **F02C 3/067** (2013.01 - US); **F02C 7/36** (2013.01 - EP US); **F02K 3/062** (2013.01 - EP); **F02K 3/072** (2013.01 - EP); **B64D 27/026** (2024.01 - US); **B64D 2027/005** (2013.01 - EP US); **F05D 2220/324** (2013.01 - EP US); **F05D 2220/325** (2013.01 - US); **F05D 2220/76** (2013.01 - EP US); **Y02T 10/7072** (2013.01 - EP); **Y02T 50/60** (2013.01 - EP)

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)
WO 2020084271 A1 20200430; CA 3117485 A1 20200430; CN 112930436 A 20210608; EP 3870827 A1 20210901; FR 3087849 A1 20200501; FR 3087849 B1 20201120; US 11987369 B2 20240521; US 2021403169 A1 20211230

DOCDB simple family (application)
FR 2019052557 W 20191025; CA 3117485 A 20191025; CN 201980070659 A 20191025; EP 19813119 A 20191025; FR 1859925 A 20181026; US 201917288206 A 20191025