

Title (en)
AERO-PROPULSION SYSTEM WITH IMPROVED PROPULSION EFFICIENCY

Title (de)
FLUGZEUGANTRIEBSSYSTEM MIT VERBESSERTER ANTRIEBSEFFIZIENZ

Title (fr)
SYSTÈME PROPULSIF AÉRONAUTIQUE À RENDEMENT PROPULSIF AMÉLIORÉ

Publication
EP 4073369 A1 20221019 (FR)

Application
EP 20845180 A 20201211

Priority
• FR 1914192 A 20191211
• FR 1914193 A 20191211
• FR 2020052391 W 20201211

Abstract (en)
[origin: WO2021116621A1] The present invention relates to an aero-propulsion system (1) comprising: - a drive shaft (10), - a low-pressure compressor (4), - a fan shaft (13) driving a fan (2), - a reduction mechanism (12) coupling the drive shaft (10) and the fan shaft (13), and - an inlet channel (3) which extends between the fan (2) and the low-pressure compressor (4), the inlet (18) having a predetermined mean radius (R3), a ratio between a mean radius (R3) of the inlet channel (3) and the mean radius (R2) of the low-pressure compressor (4), on the one hand, and the reduction ratio of the reduction mechanism (12), on the other hand, being strictly less than 0.35.

IPC 8 full level
F02C 7/36 (2006.01); **F02K 3/06** (2006.01); **F04D 29/54** (2006.01)

CPC (source: EP US)
F02C 7/36 (2013.01 - EP US); **F02K 3/06** (2013.01 - EP US); **F04D 19/02** (2013.01 - EP); **F04D 19/028** (2013.01 - EP); **F04D 25/02** (2013.01 - EP); **F04D 29/522** (2013.01 - EP); **F04D 29/542** (2013.01 - EP); **F04D 29/547** (2013.01 - EP); **F05D 2210/30** (2013.01 - EP); **F05D 2210/34** (2013.01 - EP); **F05D 2240/52** (2013.01 - US); **F05D 2250/323** (2013.01 - EP); **F05D 2250/51** (2013.01 - EP); **F05D 2260/40311** (2013.01 - EP US); **Y02T 50/60** (2013.01 - EP)

Citation (search report)
See references of WO 2021116621A1

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 2021116621 A1 20210617; CN 114945739 A 20220826; EP 4073369 A1 20221019; US 2023013650 A1 20230119; US 2023265813 A1 20230824

DOCDB simple family (application)
FR 2020052391 W 20201211; CN 202080092718 A 20201211; EP 20845180 A 20201211; US 202017783721 A 20201211; US 202318133280 A 20230411