

Title (en)
INJECTOR NOZZLE FOR TURBOMACHINE COMPRISING A PRIMARY FUEL CIRCUIT ARRANGED AROUND A SECONDARY FUEL CIRCUIT

Title (de)
EINSPRITZDÜSE FÜR EINE TURBOMASCHINE MIT EINEM PRIMÄRBRENNSTOFFKREIS, DER UM EINEN SEKUNDÄREN BRENNSTOFFKREISLAUF HERUM ANGEORDNET IST

Title (fr)
NEZ D'INJECTEUR POUR TURBOMACHINE COMPRENANT UN CIRCUIT PRIMAIRE DE CARBURANT AGENCÉ AUTOUR D'UN CIRCUIT SECONDAIRE DE CARBURANT

Publication
EP 3877699 A1 20210915 (FR)

Application
EP 19848993 A 20191226

Priority
• FR 2019053302 W 20191226
• FR 1874261 A 20181227

Abstract (en)
[origin: WO2020136359A1] An injector nozzle (43) for a turbomachine comprises a primary fuel circuit ending in a fuel ejection pipe (66), and a secondary fuel circuit comprising an annular end portion for ejecting fuel (68) arranged around the fuel ejection pipe. A portion upstream from the primary fuel circuit comprises an annular channel (70), which extends around the secondary fuel circuit and is defined by an external wall (72) of the injector nozzle. The injector nozzle comprises air intake channels (126) extending through the annular channel (70) and having inlets opening into the external wall (72) and outlets (130) opening into an annular air injection channel (124) arranged radially in the interior in relation to the end portion for ejecting fuel, around the fuel ejection pipe, and cooperating with the end portion for ejecting fuel in order to form an aerodynamic secondary injector.

IPC 8 full level
F23R 3/28 (2006.01); **F23R 3/34** (2006.01)

CPC (source: EP US)
F23R 3/283 (2013.01 - EP); **F23R 3/286** (2013.01 - US); **F23R 3/343** (2013.01 - EP); **F23D 2900/00016** (2013.01 - EP); **F23R 3/283** (2013.01 - US); **F23R 2900/00004** (2013.01 - EP)

Citation (search report)
See references of WO 2020136359A1

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 2020136359 A1 20200702; CA 3122612 A1 20200702; CN 113227656 A 20210806; CN 113227656 B 20230418; EP 3877699 A1 20210915; EP 3877699 B1 20221123; FR 3091333 A1 20200703; FR 3091333 B1 20210514; US 11788727 B2 20231017; US 2022113024 A1 20220414

DOCDB simple family (application)
FR 2019053302 W 20191226; CA 3122612 A 20191226; CN 201980086319 A 20191226; EP 19848993 A 20191226; FR 1874261 A 20181227; US 201917417505 A 20191226