

Title (en)
TURBOFAN ENGINE COMPRISING A DEVICE FOR REGULATING THE FLOW RATE OF COOLING FLUID

Title (de)
TURBOFAN-TRIEBWERK MIT EINER VORRICHTUNG ZUR REGELUNG DER STRÖMUNGSRATE EINER KÜHLFLÜSSIGKEIT

Title (fr)
TURBOMACHINE À DOUBLE FLUX COMPRENANT UN DISPOSITIF DE RÉGULATION DU DÉBIT DE FLUIDE DE REFROIDISSEMENT

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Application
EP 21718940 A 20210318

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Abstract (en)
[origin: WO2021191528A1] Turbofan engine (10) of longitudinal axis (X-X') comprising a primary duct (20), in which there flows a primary flow (F1) at a primary pressure (P3), and a secondary duct (19), which radially surrounds said primary duct (20) and in which there flows a secondary flow (F2) at a secondary pressure (PS), said primary duct (20) comprising at least one compressor (13) configured to compress the primary flow (F1), a turbine (15) driving said compressor (13) in rotation and a combustion chamber (14) designed to receive, at an inlet, the primary air flow compressed by the compressor (13), said turbomachine (10) further comprising a cooling circuit (23) extending between the compressor (13) and the turbine (15). The cooling circuit (23) comprises an air flow rate regulating device (30) arranged upstream of the turbine (15) and comprising at least one valve (42) that is able to move between an open position and a closed position, located between the compressor (13) and the combustion chamber (14) in the primary duct (20) and the pressure (PS) in the secondary duct (19).

IPC 8 full level
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Citation (search report)
See references of WO 2021191528A1

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