

Title (en)
Silencer for a gas turbine exhaust channel

Title (de)
Gasturbinenschalldämpfer mit Diffusor

Title (fr)
Silencieux pour le canal d'échappement d'une turbine à gaz

Publication
EP 0933503 A3 19991117 (DE)

Application
EP 99100914 A 19990120

Priority
DE 19803161 A 19980128

Abstract (en)
[origin: US6035964A] A combined device is provided for positioning between the outlet of a gas turbine and a steam generator. The combined device acts as a sound-absorber and as a diffusor and is designated a gas turbine muffler. The gas turbine muffler has an inner zone which widens out in the flow direction S at a relatively large angle. Deflector elements arranged in this inner zone delineate diffusor channels, that are located between adjacent deflector elements. The diffusor channels widen out in each case at a significantly smaller acute angle of less than 7 DEG . In addition to decelerating the stream of gas and hence, in addition, increasing the pressure, the narrow diffusor channels also bring about sound-absorption by reducing the regions of turbulence, making the stream more uniform, and aligning the stream. As a result of the additional function of the gas turbine muffler as a diffusor, the separate diffusors, which were required previously and which claimed a large amount of construction space, can be dispensed with.

IPC 1-7
F01D 25/30

IPC 8 full level
F01D 25/30 (2006.01); **F02C 6/18** (2006.01); **F01N 5/04** (2006.01); **F02C 6/06** (2006.01)

CPC (source: EP US)
F01D 25/30 (2013.01 - EP US)

Citation (search report)
• [X] US 4802821 A 19890207 - KREITMEIER FRANZ [CH]
• [A] US 3739872 A 19730619 - MC NAIR R
• [A] US 3602333 A 19710831 - KOBAYASHI SHUNJI, et al

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
US 6035964 A 20000314; CZ 28199 A3 19990811; DE 19803161 A1 19990729; DE 19803161 C2 20000316; EP 0933503 A2 19990804; EP 0933503 A3 19991117; HU 9900197 D0 19990329; HU P9900197 A2 19990928; PL 331069 A1 19990802

DOCDB simple family (application)
US 23844299 A 19990128; CZ 28199 A 19990127; DE 19803161 A 19980128; EP 99100914 A 19990120; HU P9900197 A 19990127; PL 33106999 A 19990127