

Title (en)
Variable guide vane for a turbo machine.

Title (de)
Leitschaufel für Turbomaschinen.

Title (fr)
Aube statorique variable pour turbomachine.

Publication
EP 0223194 A1 19870527 (DE)

Application
EP 86115712 A 19861112

Priority
DE 3540401 A 19851114

Abstract (en)
[origin: US4741665A] A guide vane for turbo-engines has a stationary vane section and a movable vane section with a gap between the two sections. The gap is covered on one side by a flexible band connected along its tape edges to the vane sections. The other side of the gap is covered by an elastic connected to the stationary vane section along one band edge while the other band edge overlaps part of the movable vane section to permit free relative movement between the elastic band (7) and the movable vane section. A plurality of such guide vanes are mounted at the radially outer end of their position adjustment member to an outer housing ring while the radially inner vane end or at least the radially inner end of the movable vane is free. A common position adjustment ring is connected to all adjustment members.

Abstract (de)
Leitschaufel für einen Leitschaufelkranz in Turbomaschinen, die einen feststehenden und einen schwenkbaren Teil aufweisen, mit einem Spalt dazwischen, der einerseits von einem anliegenden Abdeckband, andererseits von einem flexiblen Band überdeckt ist. Das flexible Band ist am feststehenden und am schwenkbaren Teil befestigt. Der Schwenkantrieb erfolgt über einen äußeren Leit- oder Stellring.

IPC 1-7
F01D 17/16

IPC 8 full level
F01D 9/02 (2006.01); **F01D 5/14** (2006.01); **F01D 17/16** (2006.01)

CPC (source: EP US)
F01D 5/148 (2013.01 - EP US); **F01D 17/162** (2013.01 - EP US)

Citation (search report)
• [X] US 3237918 A 19660301 - LE BELL CLARENCE EDGAR, et al
• [A] DE 2348304 A1 19750327 - DORNIER SYSTEM GMBH
• [A] GB 1023766 A 19660323 - BRISTOL SIDDELEY ENGINES LTD
• [A] FR 1587843 A 19700327
• [A] DE 1946086 A1 19700730 - ROLLS ROYCE
• [A] GB 1144078 A 19690305 - GEN MOTORS CORP
• [A] GB 1144077 A 19690305 - GEN MOTORS CORP
• [X] PATENTS ABSTRACTS OF JAPAN, Band 7, Nr. 193 (M-238)[1338], 24. August 1983; & JP-A-58 93 903 (HITACHI SEISAKUSHO K.K.) 03-06-1983

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