

Title (en)  
Method for washing an axial compressor

Title (de)  
Verfahren zum Waschen eines Axialverdichters

Title (fr)  
Procédé de nettoyage d'un compresseur axial

Publication  
**EP 2562430 A1 20130227 (DE)**

Application  
**EP 11178656 A 20110824**

Priority  
EP 11178656 A 20110824

Abstract (en)  
The method involves injecting a cleaning fluid through openings into an annular compressor channel (25) of an axial compressor (18) by an injecting device, where the openings are arranged in an outer channel wall (42) of the compressor channel or in compressor vanes (27) i.e. guide vanes. A penetration depth of the injected cleaning fluid is varied. A supply pressure of the cleaning fluid is varied and pulsated. The injecting device is provided with components that are opposite to a main flow direction in the compressor.

Abstract (de)  
Die Erfindung betrifft ein Verfahren zum Waschen eines axial durchströmbaren Verdichters (18), bei dem in einen Verdichterkanal (25) eine Reinigungsflüssigkeit durch in einer Kanalwand (42) des Verdichterkanals (25) oder in den Verdichterschaufeln (27) angeordnete Öffnungen eingespritzt werden. Um unterschiedliche Bereiche des Verdichterkanals (25) von Effizienz mindernden Ablagerungen zu befreien, ist vorgesehen, dass die Eindringtiefe der eingespritzten Reinigungsflüssigkeit variiert.

IPC 8 full level  
**B08B 3/02** (2006.01); **B08B 9/032** (2006.01); **F01D 25/00** (2006.01); **F04D 29/70** (2006.01)

CPC (source: EP)  
**F01D 25/002** (2013.01); **F04D 29/705** (2013.01)

Citation (applicant)  
US 6659715 B2 20031209 - KUESTERS BERNHARD [DE], et al

Citation (search report)  
• [XY] EP 2286933 A1 20110223 - GAS TURBINE EFFICIENCY SWEDEN [SE]  
• [XY] EP 1908928 A2 20080409 - GAS TURBINE EFFICIENCY AB [SE]  
• [X] WO 2005028876 A1 20050331 - ABB RESEARCH LTD [CH], et al  
• [X] EP 1749976 A2 20070207 - GEN ELECTRIC [US]  
• [X] WO 2004055334 A1 20040701 - GAS TURBINE EFFICIENCY AB [SE], et al

Cited by  
CN110056544A; DE102015006080A1; ITMI20132042A1; DE102015006082A1; DE102015006082B4; US10669885B2; IT201800021067A1; CN113272523A; JP2022514958A; WO2015082609A1; US10669884B2; WO2020135931A1

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Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
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