

Title (en)  
Axial flow turbine

Title (de)  
Axialdurchflussturbine

Title (fr)  
Turbine à flux axial

Publication  
**EP 2292897 A1 20110309 (EN)**

Application  
**EP 09169234 A 20090902**

Priority  
EP 09169234 A 20090902

Abstract (en)  
The invention relates to an axial flow turbine having a shroud cavity (10) formed in the stator (4), rotor (3) or both, that circumscribes the shroud (6) of an airfoil (5). A fin (20) is disposed in an end cavity formed within the cavity downstream of the shroud (6). It is arranged within the end cavity so as to reduce secondary losses as leakage flow passing between the shroud (6) and either the stator (4) or rotor (3), depending on the orientation of the airfoil, rejoins the main flow in the flow passage (2).

IPC 8 full level  
**F01D 5/14** (2006.01); **F01D 11/08** (2006.01)

CPC (source: EP)  
**F01D 5/145** (2013.01); **F01D 11/08** (2013.01); **F05D 2240/126** (2013.01); **F05D 2270/17** (2013.01)

Citation (search report)

- [X] JP 2009047043 A 20090305 - MITSUBISHI HEAVY IND LTD
- [X] US 2009047120 A1 20090219 - GUEMMER VOLKER [DE]
- [X] JP 2004011553 A 20040115 - MITSUBISHI HEAVY IND LTD
- [X] US 2179556 A 19391114 - ALF LYSHOLM
- [X] JP 2007321721 A 20071213 - TOSHIBA CORP
- [X] EP 1001138 A1 20000517 - ASEA BROWN BOVERI [CH]
- [E] EP 2096262 A1 20090902 - SIEMENS AG [DE]

Cited by  
CN110662885A; KR20200002988A; JPWO2018230411A1; US11053807B2; WO2018230411A1

Designated contracting state (EPC)  
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 SE SI SK SM TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**EP 2292897 A1 20110309**

DOCDB simple family (application)  
**EP 09169234 A 20090902**