

Title (en)  
STEAM TURBINE WITH ROTOR BLADE

Title (de)  
DAMPFTURBINE MIT ROTORSCHAUFEL

Title (fr)  
TURBINE À VAPEUR AVEC AUBE ROTORIQUE

Publication  
**EP 3358134 B1 20210714 (EN)**

Application  
**EP 17154386 A 20170202**

Priority  
EP 17154386 A 20170202

Abstract (en)  
[origin: EP3358134A1] This application provides controlled flow runners (130) for use with steam turbines. Example controlled flow runners may include a tip, a blade (82) adjacent to the tip, the blade having a top width, a middle width, and a bottom width, where the middle width is less than the top width and the bottom width, and a root adjacent to the blade.

IPC 8 full level  
**F01D 5/14** (2006.01); **F01D 5/22** (2006.01)

CPC (source: EP KR US)  
**F01D 5/14** (2013.01 - US); **F01D 5/141** (2013.01 - EP KR); **F01D 5/147** (2013.01 - KR); **F01D 5/225** (2013.01 - EP); **F05D 2220/31** (2013.01 - EP); **F05D 2240/301** (2013.01 - EP); **F05D 2240/304** (2013.01 - EP KR)

Citation (examination)  
US 5277549 A 19940111 - CHEN SHUN [US], et al

Cited by  
EP3628817A1; EP3828389A1; US11566530B2; US10808535B2

Designated contracting state (EPC)  
AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 3358134 A1 20180808; EP 3358134 B1 20210714**; CN 110268136 A 20190920; JP 2020506325 A 20200227; JP 7106552 B2 20220726; KR 102496125 B1 20230203; KR 20190107052 A 20190918; US 2020232327 A1 20200723; WO 2018144658 A1 20180809

DOCDB simple family (application)  
**EP 17154386 A 20170202**; CN 201880010720 A 20180201; JP 2019541265 A 20180201; KR 20197022833 A 20180201; US 2018016330 W 20180201; US 201816483201 A 20180201