

Title (en)
Thermoplastic stage blade

Title (de)
Thermoplastendstufenschaufel

Title (fr)
Aube thermoplastique

Publication
EP 2287447 A3 20130717 (DE)

Application
EP 10169024 A 20100709

Priority
DE 102009036018 A 20090804

Abstract (en)
[origin: US2011002790A1] A turbine blade, a turbine and a method of manufacturing a damping zone of a turbine blade are provided. The turbine blade includes a damping zone with a damping layer and the damping layer has a fiber matrix system. The fiber matrix system has a thermoplastic matrix. Reinforcing fibers are embedded in the thermoplastic matrix.

IPC 8 full level
F01D 5/28 (2006.01)

CPC (source: EP US)
F01D 5/282 (2013.01 - EP US); **F05D 2300/436** (2013.01 - EP US)

Citation (search report)
• [X] EP 1674511 A1 20060628 - SIEMENS AG [DE]
• [X] EP 0764764 A1 19970326 - GEN ELECTRIC [US]
• [X] DE 60318814 T2 20090205 - GEN ELECTRIC [US]
• [E] DE 102009010613 A1 20100902 - SIEMENS AG [DE]

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 SE SI SK SM TR

Designated extension state (EPC)
BA ME RS

DOCDB simple family (publication)
US 2011002790 A1 20110106; CN 101988394 A 20110323; DE 102009036018 A1 20110217; EP 2287447 A2 20110223;
EP 2287447 A3 20130717; EP 2287447 B1 20181107; JP 2011033037 A 20110217

DOCDB simple family (application)
US 84712610 A 20100730; CN 201010246685 A 20100804; DE 102009036018 A 20090804; EP 10169024 A 20100709;
JP 2010175455 A 20100804