

Title (en)
CENTRIFUGAL FAN IMPELLER

Title (de)
ZENTRIFUGALGEBLÄSELAUFRAD

Title (fr)
HÉLICE DE VENTILATEUR CENTRIFUGE

Publication
EP 3406910 A4 20190102 (EN)

Application
EP 17741322 A 20170113

Priority
• JP 2016007181 A 20160118
• JP 2017001105 W 20170113

Abstract (en)
[origin: EP3406910A1] A shroud (80) has: a curved plate-like shroud curved plate portion (81); and flat plate-like shroud flat plate portions (82) corresponding to just parts of sections of the shroud (80) that oppose shroud-side blade axial end portions (72). In the blade axial end portions (72) are formed blade flat surfaces (72a) that follow the shroud flat plate portions (82) and blade curved surfaces (72b, 72c) that follow the shroud curved plate portion (81). Welded portions (8b) resulting from the blade flat surfaces (72a) and the shroud flat plate portions (82) being welded to each other are formed between the blade axial end portions (72) and the shroud (80).

IPC 8 full level
F04D 29/28 (2006.01); **F04D 29/30** (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP)
F04D 29/28 (2013.01); **F04D 29/281** (2013.01); **F04D 29/30** (2013.01); **F04D 29/626** (2013.01); **F04D 29/66** (2013.01)

Citation (search report)
• [E] EP 3399195 A1 20181107 - DAIKIN IND LTD [JP]
• [XAI] JP 2007120445 A 20070517 - MITSUBISHI ELECTRIC CORP, et al
• [A] JP 2001140789 A 20010522 - DAIKIN IND LTD
• See references of WO 2017126444A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3406910 A1 20181128; EP 3406910 A4 20190102; EP 3406910 B1 20191016; BR 112018013261 A2 20181204; CN 108474389 A 20180831; CN 108474389 B 20190709; ES 2765859 T3 20200611; JP 2017129024 A 20170727; JP 6314998 B2 20180425; WO 2017126444 A1 20170727

DOCDB simple family (application)
EP 17741322 A 20170113; BR 112018013261 A 20170113; CN 201780006713 A 20170113; ES 17741322 T 20170113; JP 2016007181 A 20160118; JP 2017001105 W 20170113