

Title (en)
SEGMENTED FAN WHEEL

Title (de)
SEGMENTIERTES LÜFTERRAD

Title (fr)
ROUE DE VENTILATEUR SEGMENTÉE

Publication
EP 3198151 B1 20220427 (DE)

Application
EP 15770449 A 20150924

Priority
• DE 102014014287 A 20140924
• EP 2015001901 W 20150924

Abstract (en)
[origin: WO2016045797A2] The invention relates to a fan wheel having blades (11) which are distributed over the circumference and are connected to one another in the circumferential direction via at least one ring. The fan wheel consists of at least three integrally formed segments (I to VII). Said segments comprise at least one respective ring portion (1) of at least one ring as well as either a blade (11) or at least a portion of the blades. The segments (I to VII) are joined together to form the fan wheel. The ring portions (1) lie against each other with edges (4, 5) which form the joining areas (15, 16) that are disposed transversely with respect to the circumferential direction of the fan wheel. At least one edge (4) of the ring portion (1) of each segment (I to VII) is provided with at least one projecting form-fitting part (18), and at least one edge (4, 5) of the ring portion (1) of each segment (I to VII) is provided with at least one recess (17) which is at least approximately complementary to the form-fitting part (18).

IPC 8 full level
F04D 29/28 (2006.01); **F04D 19/02** (2006.01); **F04D 29/62** (2006.01)

CPC (source: CN EP RU US)
F04D 19/022 (2013.01 - CN EP US); **F04D 29/28** (2013.01 - RU); **F04D 29/282** (2013.01 - CN EP US); **F04D 29/326** (2013.01 - US); **F04D 29/384** (2013.01 - US); **F04D 29/388** (2013.01 - EP US); **F04D 29/626** (2013.01 - CN EP US); **F05D 2230/51** (2013.01 - CN EP US); **F05D 2260/36** (2013.01 - CN EP US)

Citation (examination)
EP 2410183 A2 20120125 - RUCK VENTILATOREN GMBH [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 RS SE SI SK SM TR

DOCDB simple family (publication)
DE 102014014287 A1 20160324; BR 112017005641 A2 20171212; BR 112017005641 B1 20220906; CN 107002698 A 20170801; CN 107002698 B 20210430; EP 3198151 A2 20170802; EP 3198151 B1 20220427; ES 2921986 T3 20220905; JP 2017528651 A 20170928; JP 6660944 B2 20200311; RU 2017113964 A 20181024; RU 2017113964 A3 20190325; RU 2718096 C2 20200330; SI 3198151 T1 20221028; US 10816009 B2 20201027; US 2017335861 A1 20171123; WO 2016045797 A2 20160331; WO 2016045797 A3 20160519

DOCDB simple family (application)
DE 102014014287 A 20140924; BR 112017005641 A 20150924; CN 201580062591 A 20150924; EP 15770449 A 20150924; EP 2015001901 W 20150924; ES 15770449 T 20150924; JP 2017516289 A 20150924; RU 2017113964 A 20150924; SI 201531862 T 20150924; US 201515513996 A 20150924