

Title (en)
TURBO COMPRESSOR

Title (de)
TURBOVERDICHTER

Title (fr)
TURBOCOMPRESSEUR

Publication
EP 3376048 B1 20200812 (EN)

Application
EP 18157880 A 20180221

Priority
JP 2017052375 A 20170317

Abstract (en)
[origin: EP3376048A1] An impeller of a turbo compressor has a hub and a plurality of blades. When a distance from a rotation axis to an intersection point between a front edge and a hub edge, a distance from the rotation axis to an intersection point between the front edge and a shroud edge, and a distance from the rotation axis to a rear edge are defined as R1, R2, and R3 respectively, the distances R1, R2, and R3 satisfy relations of $0.2 \leq R1/R3 \leq 0.3$ and $0.6 \leq R2/R3 \leq 0.8$. When a dimensionless distance from the front edge with respect to a code direction is defined as M, a blade angle θ_s is unchanged in a section where the dimensionless distance M is 0% or higher and 5% or lower, and a blade angle θ_h and the blade angle θ_s satisfy a relation of $\theta_h \neq \theta_s \times 2/3$ in a position where the dimensionless distance M is 5%.

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

CPC (source: CN EP)
F04D 29/284 (2013.01 - CN EP); **F04D 29/30** (2013.01 - CN EP); **F04D 29/666** (2013.01 - CN); **F04D 29/667** (2013.01 - CN); **F05D 2240/303** (2013.01 - EP); **F05D 2250/70** (2013.01 - EP)

Citation (examination)
US 2014202202 A1 20140724 - TAGUCHI HIDETOSHI [JP], et al

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 3376048 A1 20180919; **EP 3376048 B1 20200812**; CN 108626169 A 20181009; JP 2018155244 A 20181004

DOCDB simple family (application)
EP 18157880 A 20180221; CN 201810208560 A 20180314; JP 2018037394 A 20180302