

Title (en)
Steam turbine

Title (de)
Dampfturbine

Title (fr)
Turbine à vapeur

Publication
EP 2631436 A3 20171213 (EN)

Application
EP 13156130 A 20130221

Priority
JP 2012038725 A 20120224

Abstract (en)
[origin: EP2631436A2] A steam turbine 10 in an embodiment includes: an inner casing 21 surrounding a turbine rotor; an outer casing 20 composed of an upper half side outer casing 20a and a lower half side outer casing 20b; and an annular diffuser 50 through which steam passed through a turbine stage is discharged radially outward. A vertical distance H from a axis of a turbine rotor 23 to an inner wall of the upper half side outer casing 20a, an outermost diameter D of final stage rotor blades 22a, a blade height B of the final stage rotor blade 22a, and a distance W between inner walls in vertical and horizontal directions to the axis of the turbine rotor 23, at a bottom portion of the lower half side outer casing 20b forming a discharge port 60, satisfy $(H - D/2)/B \geq 1.7$ and $(W - D)/2B \leq 2$.

IPC 8 full level
F01D 25/30 (2006.01)

CPC (source: EP US)
F01D 1/04 (2013.01 - EP US); **F01D 3/02** (2013.01 - US); **F01D 25/30** (2013.01 - EP); **F05D 2220/31** (2013.01 - EP)

Citation (search report)

- [X] SU 916770 A1 19820330 - GUDKOV EDUARD [SU], et al
- [A] US 5518366 A 19960521 - GRAY LEWIS [US]
- [A] JP 2006329148 A 20061207 - HITACHI LTD

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CN104213949A; EP3054086A1; WO2016139574A1

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)
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