

Title (en)
Cascade for turbomachines

Title (de)
Schaufelgitteranordnung für Turbomaschinen

Title (fr)
Grilles d'aubes de guidage pour turbomachines

Publication
EP 1201880 B1 20040922 (DE)

Application
EP 01125191 A 20011024

Priority
DE 10053361 A 20001027

Abstract (en)
[origin: EP1201880A2] The paddle grid assembly for a turbo machine with an axial flow, and especially a gas turbine, has paddles (8) at the leading upstream grid (4) in an initial coherent array or in separate sectors in a part-zone at the grid periphery, in succession at an equal axial offset (DELTA m). The axial offset depends on the ratio of the number of paddles at the first and second grid. Where the first grid has more paddles, the effective outflow cross section (Aeff) is increased and vice versa. The paddles at the leading grid are positioned in a second part-zone at an equal or variable axial offset alignment against the offset of the first group.

IPC 1-7
F01D 9/04; **F01D 5/14**

IPC 8 full level
F01D 5/14 (2006.01); **F01D 9/04** (2006.01); **F04D 29/54** (2006.01)

CPC (source: EP US)
F01D 5/14 (2013.01 - EP US); **F01D 5/142** (2013.01 - EP US); **F04D 29/544** (2013.01 - EP US)

Cited by
CN100376765C; EP1724440A1; CN101457655A; EP2071127A1; FR2925106A1; US7758297B2; US8083476B2

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EP 1201880 A2 20020502; **EP 1201880 A3 20030702**; **EP 1201880 B1 20040922**; AT E277277 T1 20041015; CA 2360395 A1 20020427; CA 2360395 C 20100323; DE 10053361 C1 20020606; DE 50103734 D1 20041028; US 2002057966 A1 20020516; US 6540478 B2 20030401

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