

Title (en)
Flow machine with blade row

Title (de)
Strömungsmaschine mit Schaufelgitter

Title (fr)
Turbomachine avec grille d'aubes

Publication
EP 2623793 A1 20130807 (DE)

Application
EP 12153623 A 20120202

Priority
EP 12153623 A 20120202

Abstract (en)
The cascade has blades (2, 2') arranged adjacent to each other in a peripheral direction (U). Two adjacent blades include rear edges (4) with different angles. The blades are staggered and profiled differently across an entire height or a part of the height. The blades are adjustable to different degrees. An arrangement of the blades in the peripheral direction is continued periodically multiple times. A position and angles of front edges (8) of the blades change due to a restagger across the entire height. An independent claim is also included for a turbomachine.

Abstract (de)
Offenbart sind ein Schaufelgitter (1) für eine Strömungsmaschine mit einer Vielzahl von in Umfangsrichtung nebeneinander angeordneten Schaufeln (2), wobei zumindest zwei Schaufeln (2,2 ') im hinteren Bereich eine Variation zur Erzeugung einer asymmetrischen Abströmung aufweisen, sowie eine Strömungsmaschine, mit einem asymmetrischen Schaufelgitter (1), das einem weiteren Schaufelgitter vorgeschaltet ist.

IPC 8 full level
F04D 29/18 (2006.01); **F01D 5/14** (2006.01); **F01D 9/04** (2006.01); **F04D 29/24** (2006.01); **F04D 29/30** (2006.01); **F04D 29/32** (2006.01); **F04D 29/42** (2006.01); **F04D 29/44** (2006.01); **F04D 29/46** (2006.01); **F04D 29/54** (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP US)
F01D 5/12 (2013.01 - US); **F01D 5/141** (2013.01 - EP US); **F01D 9/041** (2013.01 - EP US); **F04D 29/181** (2013.01 - EP US); **F04D 29/245** (2013.01 - EP US); **F04D 29/30** (2013.01 - EP US); **F04D 29/327** (2013.01 - US); **F04D 29/4213** (2013.01 - US); **F04D 29/444** (2013.01 - EP US); **F04D 29/448** (2013.01 - EP US); **F04D 29/462** (2013.01 - EP US); **F04D 29/466** (2013.01 - EP US); **F04D 29/542** (2013.01 - US); **F04D 29/544** (2013.01 - EP US); **F04D 29/666** (2013.01 - EP US); **F05D 2250/51** (2013.01 - EP US); **F05D 2260/961** (2013.01 - EP US)

Citation (applicant)
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