

Title (en)
Rotor disc for turbomachine fan

Title (de)
Rotorscheibe für ein Triebwerksfan

Title (fr)
Disque de rotor de soufflante de turbomachine

Publication
EP 1950381 A1 20080730 (FR)

Application
EP 07291632 A 20071227

Priority
FR 0700326 A 20070118

Abstract (en)
The disc has axial grooves (22) for mounting and retaining the vane roots, and deformable zones (34) radially located outside the grooves, where the zones are placed at a rear end of the grooves. The zones having cavities are formed in hooking flanges (36) of inter-vane platforms, and are placed at the level of the rear notches of the vane roots, where the platforms orient air flow at inlet of a turbomachine.

Abstract (fr)
Disque (10) de rotor de soufflante dans une turbomachine, comprenant en périphérie des rainures (22) sensiblement axiales de montage et de retenue de pieds d'aubes (20) comportant des crochets à leurs extrémités aval, des zones déformables formées par des cavités (34) étant situées à l'extrémité aval des rainures (22) dans des brides (36) d'accrochage de plates-formes inter-aubes pour absorber les contraintes entre le disque et les pieds d'aube.

IPC 8 full level
F04D 29/32 (2006.01); **F01D 5/30** (2006.01); **F01D 21/04** (2006.01)

CPC (source: EP US)
F01D 5/3007 (2013.01 - EP US); **F01D 21/045** (2013.01 - EP US); **F04D 29/322** (2013.01 - EP US)

Citation (applicant)
• GB 2100808 A 19830106 - GEN ELECTRIC [US]
• GB 2380770 A 20030416 - ROLLS ROYCE PLC [GB]
• US 6634863 B1 20031021 - FORRESTER JAMES MICHAEL [US], et al

Citation (search report)
• [XY] US 6634863 B1 20031021 - FORRESTER JAMES MICHAEL [US], et al
• [YA] GB 2380770 A 20030416 - ROLLS ROYCE PLC [GB]
• [A] EP 1048821 A2 20001102 - GEN ELECTRIC [US]
• [A] GB 2100808 A 19830106 - GEN ELECTRIC [US]
• [A] EP 1703079 A1 20060920 - SIEMENS AG [DE]

Cited by
CN102753788A; FR2968363A1; US8911212B2; US8821122B2; WO2010088882A3

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