

Title (en)
Airfoil fillet

Title (de)
Übergang eines Schaufelprofils

Title (fr)
Raccord de profil d'aube

Publication
EP 2184442 A1 20100512 (EN)

Application
EP 08168866 A 20081111

Priority
EP 08168866 A 20081111

Abstract (en)
A compound fillet (10) for a turbine blade (1) that covers an airfoil to platform join (20) and is configured to comprise a first arc and a second arc. The first arc (11) having a first end tangential to the airfoil surface (5). The second arc (16) having a first end tangentially adjoining the second end of the first arc(11) and a second end adjoining the platform surface. The radius (12) of the first arc(11) is larger than the radius (17) of the second arc (16). In an aspect the compound fillet (10) comprises a first portion configured to consist of the first arc (11) and the second arc (16) wherein the second arc (16) adjoins non-tangentially the platform surface (7) at the platform edge (8). In this way the compound fillet (10) footprint on the platform surface (7) is reduced, providing the design engineer greater freedom to design and configure the platform (6).

IPC 8 full level
F01D 5/14 (2006.01)

CPC (source: EP)
F01D 5/143 (2013.01)

Citation (search report)

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

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