

Title (en)

Leading edge of a turbomachine part made of superelastic material

Title (de)

Vorderkante eines Bauteils eines Turbotriebwerks, die aus superelastischem Material besteht

Title (fr)

Bord d'attaque de pièce de turbomachine constitué de matériau superélastique

Publication

EP 2090747 B1 20110921 (FR)

Application

EP 09152682 A 20090212

Priority

FR 0850935 A 20080214

Abstract (en)

[origin: EP2090747A1] The part i.e. vane (10), has a sheet (60) that is made of material e.g. austenite phase memory alloy such as nickel copper alloy, fixed on a main part (15) and extended from a lower surface (30) to an upper surface (50) of the part so as to define a space (70) between the sheet and an upstream end (20) of the part. The sheet covers the end of the part, and the material of the sheet is deformed in a super elastic reversible manner in response to an impact by an outside body e.g. gravel, without damaging the part. An independent claim is also included for a method for fabricating a part of a turbomachine.

IPC 8 full level

F01D 5/14 (2006.01); **F01D 5/28** (2006.01)

CPC (source: EP US)

F01D 5/147 (2013.01 - EP US); **F01D 5/28** (2013.01 - EP US); **F05B 2240/311** (2013.01 - EP US); **F05D 2240/121** (2013.01 - EP US); **F05D 2240/303** (2013.01 - EP US); **F05D 2300/505** (2013.01 - EP US); **Y10T 29/49336** (2015.01 - EP US)

Cited by

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Designated contracting state (EPC)

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EP 2090747 A1 20090819; **EP 2090747 B1 20110921**; CA 2653565 A1 20090814; FR 2927652 A1 20090821; FR 2927652 B1 20100326; JP 2009191847 A 20090827; JP 5172735 B2 20130327; RU 2009105144 A 20100820; RU 2486347 C2 20130627; US 2009208342 A1 20090820

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