

Title (en)
COMPONENT HAVING VARYING STRUCTURES AND METHOD FOR PRODUCTION

Title (de)
BAUTEIL MIT UNTERSCHIEDLICHEM GEFÜGE UND VERFAHREN ZUR HERSTELLUNG

Title (fr)
COMPOSANT À STRUCTURE DIFFÉRENCIÉE ET PROCÉDÉ DE FABRICATION

Publication
EP 2379252 A1 20111026 (DE)

Application
EP 10700830 A 20100108

Priority
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• EP 10700830 A 20100108

Abstract (en)
[origin: EP2210688A1] The component e.g. turbine blade (120) comprises a first region such as a blade region (406), and a second region such as a blade fastening region (400), which has a downwardly arranged structure opposite to the first region, where a blade platform (403) is used as first and/or second regions. A stalk-shaped structure and an undirected rigid structure represent the downwardly arranged structure opposite to a monocrystalline structure (SX). The undirected rigid structure represents a secondary structure opposite to the stalk-shaped structure and the monocrystalline structure. The component e.g. turbine blade (120) comprises a first region such as a blade region (406), and a second region such as a blade fastening region (400), which has a downwardly arranged structure opposite to the first region, where a blade platform (403) is used as first and/or second regions. A stalk-shaped structure and an undirected rigid structure represent the downwardly arranged structure opposite to a monocrystalline structure (SX). The undirected rigid structure represents a secondary structure opposite to the stalk-shaped structure and the monocrystalline structure. The entire blade region or the first region has stalk-shaped structure or monocrystalline structure. The monocrystalline structure and the stalk-shaped structure extend up to a certain thickness but partially into the blade platform and/or extend through the entire blade platform. The blade fastening region has undirected rigid structure or stalk-shaped structure. The blade platform has further structure than the blade region and/or same structure as the blade region. The second region contains additional alloy than in the first region. An independent claim is included for a method for producing a component.

IPC 8 full level
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B22D 27/045 (2013.01 - EP US); **C30B 29/52** (2013.01 - EP US); **F01D 5/147** (2013.01 - EP US); **F05D 2240/80** (2013.01 - EP US); **F05D 2300/607** (2013.01 - EP US); **Y02T 50/60** (2013.01 - US)

Citation (search report)
See references of WO 2010084036A1

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