

Title (en)

METHOD OF MANUFACTURING TURBINE BLADES

Publication

EP 0119186 B1 19880601 (DE)

Application

EP 84890041 A 19840308

Priority

AT 83783 A 19830310

Abstract (en)

[origin: EP0119186A2] 1. A method of manufacturing turbine blades from blanks of 7-14 % chrome steels, which are heated to forging temperature and then precision forged, in particular in a screw press, the blades then being cooled from the forging heat by a cooling agent discharged from one or more nozzles and, after cooling to room temperature, annealed, characterized in that the amount of cooling agent emitted per unit of time and/or the direction of the cooling agent jet on the various areas of the turbine blade surface is diversely apportioned as a function of the amount of heat which is to be given off by the respective area and which is determined by the volume of the part of the blade and the corresponding temperature, so that the cooling is controlled with the proviso that the difference between the surface temperatures of the turbine blade does not exceed 100 degrees C.

IPC 1-7

C21D 9/00; **C21D 1/667**; **C21D 8/00**

IPC 8 full level

C21D 1/667 (2006.01); **C21D 8/00** (2006.01); **C21D 9/00** (2006.01)

CPC (source: EP)

C21D 1/667 (2013.01); **C21D 8/005** (2013.01); **C21D 9/0068** (2013.01)

Cited by

EP0307386A1; US6434949B2; WO0018972A1

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EP 0119186 A2 19840919; **EP 0119186 A3 19850911**; **EP 0119186 B1 19880601**; AT 376914 B 19850125; AT A83783 A 19840615; DE 3471690 D1 19880707

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