

Title (en)

Combustion turbine blade with varying coating.

Title (de)

Turbinenschaufel mit, an verschiedenen Stellen, verschiedener Schutzschicht.

Title (fr)

Aube de turbine ayant une couche de revêtement variée selon l'endroit.

Publication

EP 0139396 A1 19850502 (EN)

Application

EP 84305738 A 19840822

Priority

US 52760683 A 19830829

Abstract (en)

A turbine blade for a combustion turbine, in which the blade is provided with a hot-end coating, a cooler-end coating, and an intermediate transition zone with a mixture of the two end coatings. The blade has a hot end portion operable at a temperature in excess of 1500 DEG F, a cooler end portion operable at a temperature of less than 1250 DEG F, and an intermediate zone portion operable at between 1250 and 1500 DEG F. The blade with hot end portion is coated with a low creep-type coating which is resistant to high temperature corrosion and oxidation, the cooler end portion is coated with a ductile-type coating which is resistant to sulfide corrosion, and the intermediate portion coated with a mixture of the hot end coating and the cooler end coating.

IPC 1-7

F01D 5/28; **C23C 4/00**

IPC 8 full level

F01D 5/14 (2006.01); **C23C 4/02** (2006.01); **F01D 5/28** (2006.01); **F01D 25/00** (2006.01)

CPC (source: EP KR)

C23C 4/02 (2013.01 - EP); **F01D 5/28** (2013.01 - KR); **F01D 5/288** (2013.01 - EP); **F01D 25/005** (2013.01 - EP)

Citation (search report)

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