

Title (en)

Nickel-base superalloys especially useful as compatible protective environmental coatings for advanced superalloys.

Title (de)

Nickel-Basis-Superlegierungen, die insbesondere geeignet sind als kompatible Beschichtungen für moderne Superlegierungen.

Title (fr)

Superaliages à base de nickel spécialement utilisables comme revêtement compatible pour des superalliages modernes.

Publication

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Application

EP 85400478 A 19850313

Priority

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Abstract (en)

There is provided by the present invention an alloy which is mechanically and chemically compatible with advanced nickel-base superalloys and nickel-base eutectic superalloys and which possesses excellent resistance to high temperature oxidation. The alloy of the invention is, therefore, particularly useful as a protective environmental coating for the external surfaces of hot-stage aircraft gas turbine engine components, e.g., rotating blades and stationary vanes, made from such advanced superalloys.

IPC 1-7

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IPC 8 full level

C22C 19/05 (2006.01); **C23C 30/00** (2006.01)

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C22C 19/056 (2013.01); **C23C 30/00** (2013.01)

Citation (search report)

- [X] FR 2503189 A1 19821008 - HOWMET TURBINE COMPONENTS [US]
- [A] FR 2457907 A1 19801226 - HOWMET TURBINE COMPONENTS [US]
- [A] US 4459160 A 19840710 - MEETHAM GEOFFREY W [GB], et al
- [A] US 3896547 A 19750729 - KULWIEC LEONARD
- [A] THIN SOLID FILMS, vol. 84, 6th-10th April 1982, pages 49-58, Metallurgical and protective coatings, Conference on Metallurgical Coatings, San Francisco, CA, US, Elsevier, Netherlands; F.J. PENNISI et al.: "Improved plasma-sprayed Ni-Co-Cr-Al-Y and Co-Cr-Al-Y coatings for aircraft gas turbine applications"

Cited by

US5273712A; EP1837412A3; US5401307A; DE3719902A1; DE3719902C2; US5599385A; US5582635A; US6924046B2; US8025984B2; EP1956105A1

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