

Title (en)
Heat-resistant materials.

Title (de)
Hitzebeständige Werkstoffe.

Title (fr)
Matériaux résistants à la chaleur.

Publication
EP 0429796 A1 19910605 (EN)

Application
EP 90118741 A 19900928

Priority
JP 30009189 A 19891117

Abstract (en)
A heat-resistant material having excellent high-temperature strength and high oxidation resistance at temperatures exceeding 1300 DEG C. The material is a heat-resistant Cr-Fe alloy comprising at least 60% of Cr and at least 5% of Fe, and having a mean grain size of at least 50 μ m and having a melting point of at least 1600 DEG C, or a composite material composed of the said heat-resistant alloy serving as a metal matrix and a ceramic, and containing up to 40% by volume of a dispersed ceramic phase in the metal matrix.

IPC 1-7
C22C 27/06

IPC 8 full level
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CPC (source: EP KR)
C22C 27/06 (2013.01 - EP KR); **C22C 32/00** (2013.01 - EP)

Citation (search report)

- [X] FR 2137793 A1 19721229 - SULZER AG
- [X] US 3017265 A 19620116 - MCGURTY JAMES A, et al
- [X] US 2780545 A 19570205 - BLANK HOWARD A, et al
- [X] US 1357550 A 19201102 - FAHRENWARD FRANK A
- [X] DE 1608116 A1 19701210 - WINTER DR HEINRICH, et al
- [X] US 4442067 A 19840410 - SAITO YOSHINOBU [JP], et al

Cited by
CN108546860A; CN115323234A; EP1681361A4; WO0073523A1; US7037467B1; US8685315B2

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