

Title (en)

METALLIC SEMI-FINISHED PRODUCT, PROCESS FOR ITS MANUFACTURE AND USES OF THE SEMI-FINISHED PRODUCT

Publication

EP 0236823 B1 19910724 (DE)

Application

EP 87102472 A 19870221

Priority

DE 3606804 A 19860301

Abstract (en)

[origin: US4798631A] The invention relates to a metallic semi-finished product based on iron and/or nickel and/or cobalt and containing 2 to 16% of aluminum, 12 to 30% of chromium and at least one highly reactive element X, in particular from the group consisting of the rare earth metals and/or their dispersed oxides. The characteristic feature of the invention is that metallic columnar crystals are formed at least in the surface region of the semi-finished product and columnar crystals consisting predominantly of aluminum oxide and/or chromium oxide grow out of the said metallic columnar crystals, the axes of the two types of columnar crystals being predominantly at right angles to the geometric surface of the semi-finished product.

IPC 1-7

C22C 19/05; C22C 19/07; C22C 38/18

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CPC (source: EP KR US)

C22C 19/05 (2013.01 - EP US); **C22C 19/07** (2013.01 - EP US); **C22C 38/18** (2013.01 - EP US); **C22C 38/54** (2013.01 - KR)

Citation (examination)

- EP 0232793 A1 19870819 - NIPPON STEEL CORP [JP]
- K.N. STRAFFORD, "High Temperature Technology, vol. 1, No. 6, Nov. 1983, p. 307-318

Cited by

EP0358309A1; EP0625585A1

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AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

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