Title (en)

IRON-CHROMIUM-BORON ALLOY FOR GLASS MANUFACTURING TOOLS

Title (de)

FE-CR-B-LEGIERUNG FÜR WERKZEUGE IN DER GLASHERSTELLUNG

Title (fr)

ALLIAGE FER-CHROME-BORE POUR OUTILS DE FABRICATION DU VERRE

Publication

EP 0763142 A1 19970319 (EN)

Application

EP 95919929 A 19950529

Priority

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- AU PM593094 A 19940530

Abstract (en)

[origin: WO9533080A1] An iron-chromium-boron alloy, suitable for the production of tools for the manufacture of glass articles, and a tool made from the alloy, has a composition of from 1 to 20 wt.% chromium and from 0.5 to 3 wt.% boron. The composition optionally contains carbon subject to carbon in excess of 1.0 wt.% being bound by at least one strong carbide forming element in a carbide and/or carbo-boride phase, with the alloy otherwise optionally including the at lest one carbide forming element. The composition also optionally contains one or more of silicon up to 3 wt. %, aluminium up to 0.2 wt.%, manganese up to 2 wt.%, nickel up to 3 wt.%, copper up to 3 wt.% and molybdenum up to 5 wt.%. The balance, apart from incidental impurities, is iron.

IPC 1-7

C22C 38/32; C22C 38/54; C03B 9/48

IPC 8 full level

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