

Title (en)
A FERROCHROMIUM ALLOY

Title (de)
FERROCHROMLEGIERUNG

Title (fr)
ALLIAGE DE FERRO-CHROME

Publication
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Application
EP 90911863 A 19900803

Priority

- AU PJ562889 A 19890804
- AU 9000331 W 19900803

Abstract (en)
[origin: WO9102101A1] An erosion and corrosion resistant ferrochromium alloy comprising the following composition, in wt. %, 34 - 50 chromium, 1.5 - 2.5 carbon, up to 5 manganese, up to 5 silicon, up to 5 molybdenum, up to 10 nickel, up to 5 copper, up to 1 % of each of one or more micro-alloying elements selected from the group consisting of titanium, zirconium, niobium, boron, vanadium and tungsten, and balance, iron and incidental impurities. The alloy has a microstructure comprising eutectic chromium carbides in a matrix comprising one or more of ferrite, retained austenite and martensite, as herein defined. Optionally, the microstructure further comprises one of primary chromium carbides, primary ferrite or primary austenite in the matrix.

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IPC 8 full level
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CPC (source: EP KR)
C22C 37/06 (2013.01 - KR); **C22C 37/08** (2013.01 - KR); **C22C 38/36** (2013.01 - EP)

Citation (examination)

- Handbuch der Fertigungstechnik, vol. 4/2, Carl Hanser Verlag München, (1987), pp. 954/955;
- Handbuch der Sonderstahlkunde, E. Houdremont, Springer Verlag (1956), pp 623-627

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DOCDB simple family (publication)
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