

Title (en)

Wear and corrosion resistant surfaces

Title (de)

Verschleiss- und korrosionsbeständige Oberfläche

Title (fr)

Surfaces résistantes à l'usure et à la corrosion

Publication

**EP 0902099 A1 19990317 (DE)**

Application

**EP 98116523 A 19980901**

Priority

CH 213497 A 19970910

Abstract (en)

A wear and corrosion resistant surface or coating contains  $\geq 1$  wt.% vanadium. Independent claims are also included for (i) a surface or coating consisting of a steel of composition (by wt.) 12-25% Cr, 0-15% Mn, 2-6% Mo, 0-15% Ni,  $\geq 1$  (preferably 2-12)% V, 0-6% N, balance Fe and impurities; and (ii) production of a wear and corrosion resistant surface or coating by applying an alloy steel, containing  $\geq 1$  wt.% V and optionally in powder form, onto a ceramic, metallic or other surface. Preferred Feature: The alloy steel is applied by thermal spraying, the nitrogen content (required for hard phase formation) being incorporated in the steel before, during or after spraying.

Abstract (de)

Technische Schichten, wie insbesondere Oberflächen oder Beschichtungen, welche verschleiss- und korrosionsbeständig sind, aufweisend eine Stahllegierung, enthalten einen Masseanteil an Vanadium  $\geq 1$  %, damit sie eine hohe Verschleissbeständigkeit aufweisen.

IPC 1-7

**C23C 4/06**; **C22C 38/24**; **C22C 38/46**

IPC 8 full level

**C22C 38/24** (2006.01); **C23C 4/06** (2016.01); **C23C 4/12** (2016.01); **C23C 4/18** (2006.01)

CPC (source: EP)

**C22C 38/24** (2013.01); **C23C 4/06** (2013.01); **C23C 4/12** (2013.01); **C23C 4/18** (2013.01)

Citation (search report)

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