

Title (en)

A method for surface hardening a ferrous-alloy article and the resulting product.

Title (de)

Verfahren zum Oberflächenhärten eines Gegenstandes aus einer Eisenlegierung und so erhaltenes Produkt.

Title (fr)

Méthode pour endurcir la surface d'un objet en alliage ferreux et produit en résultant.

Publication

**EP 0122529 A1 19841024 (EN)**

Application

**EP 84103561 A 19840330**

Priority

JP 6279683 A 19830408

Abstract (en)

A method of providing the surface of a ferrous alloy article containing at least 0.2% by weight of carbon with a surface layer composed of the nitrocarbide of an element of Group Va of the periodic table and an inner ferrous alloy layer containing nitrogen located immediately below the surface layer. The layers are formed by (a) nitriding the article surface and (b) a thermal diffusion treatment thereof with a treating agent containing the Group Va element. The formation of the layers can be accomplished easily and rapidly without presenting any problem when the article is later hardened.

IPC 1-7

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CPC (source: EP)

**C23C 10/02** (2013.01); **C23C 12/00** (2013.01); **C23C 28/00** (2013.01)

Citation (search report)

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