

Title (en)  
Austenitic alloys and their applications.

Title (de)  
Austenitische Legierungen und deren Verwendung.

Title (fr)  
Alliages austénitiques et leurs applications.

Publication  
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Application  
**EP 94118682 A 19941128**

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Abstract (en)  
The invention relates to high chromium content, corrosion resistant, austenitic alloys having the following composition: 32-37% by weight of chromium 28-36% by weight of nickel max. 2% by weight of manganese max. 0.5% by weight of silicon max. 0.1% by weight of aluminium max. 0.03% by weight of carbon max. 0.025% by weight of phosphorus max. 0.01% by weight of sulphur max. 2% by weight of molybdenum max. 1% by weight of copper 0.3-0.7% by weight of nitrogen and usual minor constituents and impurities resulting from the production method and the remainder as iron. These alloys are suitable as materials for articles which are resistant to chemical attack.

Abstract (de)  
Die Erfindung betrifft hochchromhaltige, korrosionsbeständige, austenitische Legierungen mit folgender Zusammensetzung: 32-37: Gew.-% Chrom; 28-36: Gew.-% Nickel; max. 2: Gew.-% Mangan; max. 0,5: Gew.-% Silizium; max. 0,1: Gew.-% Aluminium; max. 0,03: Gew.-% Kohlenstoff; max. 0,025: Gew.-% Phosphor; max. 0,01: Gew.-% Schwefel; max. 2: Gew.-% Molybdän; max. 1: Gew.-% Kupfer; 0,3-0,7: Gew.-% Stickstoff sowie übliche herstellungsbedingte Beimengungen und Verunreinigungen und den Rest als Eisen. Diese Legierungen sind geeignet als Werkstoff für Gegenstände, die gegenüber chemischen Angriffen beständig sind.

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