

Title (en)

Oxidation- and corrosion-resistant alloy based on doped iron aluminide and application of this alloy

Title (de)

Oxidations- und korrosionsbeständige Legierung auf der Basis von dotiertem Eisenaluminid und Verwendung dieser Legierung

Title (fr)

Alliage résistant à l'oxydation et à la corrosion, à base l'aluminium de fer dopé et application de cet alliage

Publication

**EP 0609682 B1 20010328 (DE)**

Application

**EP 94100485 A 19940114**

Priority

DE 4303316 A 19930205

Abstract (en)

[origin: EP0609682A1] The alloy is based on doped iron aluminide Fe<sub>3</sub>Al. It contains the following alloy constituents, in atomic per cent: 24 - 28 of aluminium 0.1 - 2 of niobium, tantalum and/or tungsten 0.1 - 10 of chromium 0.1 - 2 of silicon 0.1 - 5 of boron 0.01 - 2 of titanium the remainder being iron. The alloy is distinguished, even at temperatures above 700°C, by a high oxidation resistance and corrosion resistance and is preferentially used in components which are exposed to oxidising and corroding effects at high temperatures and low mechanical stress. <IMAGE>

IPC 1-7

**C22C 38/06**

IPC 8 full level

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