

Title (en)

Non-chrome cleaner/deoxidizer system.

Title (de)

Reinigungs/Desoxydationssystem ohne Chrom.

Title (fr)

Système de nettoyage/désoxydation sans chrome.

Publication

**EP 0351771 A1 19900124 (EN)**

Application

**EP 89113143 A 19890718**

Priority

- US 22106588 A 19880719
- US 37499289 A 19890707

Abstract (en)

The invention is a metal treating process which uses a chrome-free deoxidizing bath. The process is useful for cleaning and deoxidizing aluminum substrates.

IPC 1-7

**C23C 22/78; C23F 1/20; C23F 1/36; C23G 1/12; C23G 1/22**

IPC 8 full level

**C23C 22/78** (2006.01); **C23G 1/12** (2006.01)

CPC (source: EP)

**C23G 1/125** (2013.01)

Citation (search report)

- [X] US 4459216 A 19840710 - NAKAZATO TOSHIHIRO [JP], et al
- [X] GB 2186292 A 19870812 - PARKER CHEMICAL CO
- [X] GB 2100757 A 19830106 - AMCHEM PROD [US]
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DOCDB simple family (publication)

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BR 8903578 A 19900417; CA 1319591 C 19930629; DE 68924012 D1 19951005; DE 68924012 T2 19960502; JP H0277581 A 19900316;  
MX 170063 B 19930805; TR 28132 A 19960301

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