

Title (en)

Reductive decontaminant gel and its use for decontaminating surfaces

Title (de)

Dekontaminierendes Reduktorgel und seine Verwendung zur Dekontamination von Oberflächen

Title (fr)

Gel décontaminant réducteur et son utilisation pour la décontamination de surfaces

Publication

**EP 0589781 B1 19990331 (FR)**

Application

**EP 93402307 A 19930921**

Priority

FR 9211317 A 19920923

Abstract (en)

[origin: EP0589781A1] The invention relates to a reductive decontaminant gel and to its use for decontaminating surfaces. This reductive gel consists of a colloidal solution with a pH at least equal to 13 comprising: a) 20 to 30% by weight of a gelling agent such as alumina, b) 0.1 to 14 mol/l of a base such as NaOH, and c) 0.1 to 4.5 mol/l of a reducing agent having an oxidation-reduction potential E0 less than -600 mV/SHE in strongly basic medium (pH  $\geq$  13), for example NaBH<sub>4</sub>, Na<sub>2</sub>S, Na<sub>2</sub>S<sub>2</sub>O<sub>4</sub> or hydrazine. This reductive gel can be used for decontaminating metal surfaces covered with adhering oxide layers.

IPC 1-7

**G21F 9/00**

IPC 8 full level

**G21F 9/00** (2006.01)

CPC (source: EP)

**G21F 9/001** (2013.01)

Cited by

US8636848B2; US6852903B1; FR2827530A1; FR2746328A1; US6203624B1; WO9735323A1; WO03008529A1; US7713357B2; US7718010B2

Designated contracting state (EPC)

BE CH DE ES GB LI SE

DOCDB simple family (publication)

**EP 0589781 A1 19940330; EP 0589781 B1 19990331**; DE 69324203 D1 19990506; DE 69324203 T2 19990930; ES 2132203 T3 19990816; FR 2695839 A1 19940325; FR 2695839 B1 19941014

DOCDB simple family (application)

**EP 93402307 A 19930921**; DE 69324203 T 19930921; ES 93402307 T 19930921; FR 9211317 A 19920923