

Title (en)

Improved process and device for cleaning metal surfaces

Title (de)

Verbessertes Verfahren und Vorrichtung zum Reinigen von Metalloberflächen

Title (fr)

Procédé et dispositif améliorés destiné au nettoyage des surfaces métalliques

Publication

EP 1502971 A3 20070711 (DE)

Application

EP 04017834 A 20040728

Priority

DE 10334858 A 20030729

Abstract (en)

[origin: EP1502971A2] Process for cleaning high grade steel surfaces close to a welding seam comprises applying a high voltage impulse with a voltage of more than 40 V, preferably more than 400 V, for an average impulse duration of between 5×10^{-1} to 2×10^{-1} seconds and 1 seconds during cleaning. An independent claim is also included for a device for carrying out the process.

IPC 8 full level

C25F 1/06 (2006.01); **C25F 1/04** (2006.01); **C25F 7/00** (2006.01)

CPC (source: EP)

C25F 1/04 (2013.01); **C25F 1/06** (2013.01); **C25F 7/00** (2013.01)

Citation (search report)

- [XA] US 2002157964 A1 20021031 - HOFFMAN JOHN E [US], et al
- [XA] DE 8513410 U1 19851107
- [XAY] AU 4499468 A 19710325
- [DXAY] DE 19809487 A1 19990909 - GREISING [DE]
- [X] US 5981084 A 19991109 - RIABKOV VITALIJ M [RU], et al
- [XA] US 3751352 A 19730807 - BLAIR G, et al
- [XA] SU 1599446 A1 19901015 - INST ELEKTROSWARKI PATONA [SU]
- [XA] SU 1244216 A1 19860715 - VNII SELSKOKHOZ MASH [SU]
- [X] US 2002143225 A1 20021003 - KAGITANI TAKEO [JP]
- [A] JP H02270999 A 19901106 - YAMAMOTO CHEMICALS INC

Cited by

ITPG20090008A1; WO2023039641A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL HR LT LV MK

DOCDB simple family (publication)

EP 1502971 A2 20050202; EP 1502971 A3 20070711

DOCDB simple family (application)

EP 04017834 A 20040728