

Title (en)
Installation and process for pickling steel materials

Title (de)
Anlage und Verfahren zum Beizen von Gegenständen aus Stahl

Title (fr)
Appareil et procédé pour le décapage des matériaux en acier

Publication
EP 1477583 B1 20071017 (DE)

Application
EP 04010403 A 20040503

Priority
DE 10321411 A 20030513

Abstract (en)
[origin: EP1477583A1] Pickling is carried out by spraying pickling fluid (B) in a booth (1), in batch operation, with no nitric acid in the tank (2). Tank and booth are vented together, gases liberated in the booth being returned to the tank. Following pickling, rinse water (C) from a tank (3) is sprayed over the objects in the booth, with gas exchange between booth and tank. Residual gases from rinsing are partly recycled to the rinse water tank, without releasing effluent gases to the surroundings. An independent claim is included for the corresponding plant.

IPC 8 full level
C23G 3/00 (2006.01)

CPC (source: EP)
C23G 1/08 (2013.01); **C23G 3/00** (2013.01)

Cited by
WO2021058044A1; CN103245549A; EP3168329A1

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

DOCDB simple family (publication)
EP 1477583 A1 20041117; EP 1477583 B1 20071017; AT E376081 T1 20071115; DE 10321411 A1 20041209; DE 10321411 B4 20051201; DE 502004005239 D1 20071129; PL 1477583 T3 20080331

DOCDB simple family (application)
EP 04010403 A 20040503; AT 04010403 T 20040503; DE 10321411 A 20030513; DE 502004005239 T 20040503; PL 04010403 T 20040503