

Title (en)

Device for and method of cleaning installations online

Title (de)

Vorrichtung und Verfahren zum Online-Reinigen von Installationen

Title (fr)

Dispositif et procédé pour nettoyer en ligne des installations

Publication

EP 2548662 A1 20130123 (EN)

Application

EP 11175095 A 20110722

Priority

EP 11175095 A 20110722

Abstract (en)

The invention relates to a device (1) for cleaning installations (2), in particular incinerators, scrubbers, and silos, comprising a first arm (3) containing or carrying at least one explosive and connected to a second arm (5) for manipulating the first arm (3) inside an installation (2). The second arm (5) comprises two or more parallel elongated elements (6) interconnected at a plurality of longitudinal positions.

IPC 8 full level

B08B 7/00 (2006.01); **B08B 9/00** (2006.01); **B08B 9/08** (2006.01); **B25J 5/00** (2006.01); **F23J 3/02** (2006.01); **F27D 25/00** (2010.01); **F28G 15/02** (2006.01)

CPC (source: EP)

B08B 7/0007 (2013.01); **B08B 9/00** (2013.01); **B08B 9/08** (2013.01); **F23J 3/00** (2013.01); **F23J 3/023** (2013.01); **F27D 25/006** (2013.01); **F28G 15/02** (2013.01)

Citation (applicant)

- EP 1544567 A2 20050622 - INNO IND ENGINEERING LTD [VG]
- EP 1275925 A1 20030115 - HANS EICHNER GMBH & CO KG [DE]
- EP 1067349 A2 20010110 - ZILKA FRANCIS [US], et al
- US 5494004 A 19960227 - HUNTER JR LOUIS G [US]
- WO 9816329 A2 19980423 - FOSTER MILLER INC [US]
- "Handbuch Sprengtechnik", 1975, VEB DEUTSCHER VERLAG, pages: 344 - 351

Citation (search report)

- [YD] EP 1544567 A2 20050622 - INNO IND ENGINEERING LTD [VG]
- [Y] US RE29987 E 19790508
- [Y] WO 02084193 A1 20021024 - BANG & CLEAN GMBH [CH], et al
- [YD] EP 1067349 A2 20010110 - ZILKA FRANCIS [US], et al
- [A] US 3897263 A 19750729 - DAVIS OLIVER THURSTON, et al
- [A] US 4106516 A 19780815 - WIEGAND PAUL C
- [A] US 3888362 A 19750610 - FLETCHER JAMES C DEPUTY ADMINI, et al
- [X] EP 1987895 A1 20081105 - UNITED TECHNOLOGIES CORP [US]
- [Y] US 2010212608 A1 20100826 - BROWN CLINTON A [US], et al
- [A] DE 102004007007 B3 20050908 - DOSSE DORIS [DE]

Cited by

RU2753558C1; CN103528389A; JP2019203607A; WO2019225565A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2548662 A1 20130123; WO 2013014097 A1 20130131

DOCDB simple family (application)

EP 11175095 A 20110722; EP 2012064330 W 20120720