

Title (en)

SPRAY BEAM FOR A HYDRAULIC DESCALING FACILITY

Title (de)

SPRITZBALKEN FÜR EINE HYDRAULISCHE ENTZUNDERUNGSANLAGE

Title (fr)

RAMPE DE PULVERISATION CONCUE POUR UN DISPOSITIF DE DECAPAGE HYDRAULIQUE

Publication

EP 1427549 B1 20050216 (DE)

Application

EP 02798705 A 20020903

Priority

- DE 10146113 A 20010919
- EP 0209795 W 20020903

Abstract (en)

[origin: WO03024636A1] The invention aims at providing a spray boom comprising several spray nozzles for a hydraulic descaling facility, by means of which high temperature constancy is ensured from beginning to the end of the rolling stock and rapid cooling of the surface is prevented. According to the invention, a check valve is assigned to each spray nozzle.

IPC 1-7

B21B 45/08; **B08B 3/02**

IPC 8 full level

B21C 3/18 (2006.01); **B05B 9/03** (2006.01); **B08B 3/02** (2006.01); **B21B 45/08** (2006.01); **B05B 1/30** (2006.01); **B21B 45/02** (2006.01)

CPC (source: EP KR US)

B05B 9/035 (2013.01 - EP US); **B08B 3/022** (2013.01 - EP US); **B21B 45/08** (2013.01 - EP KR US); **B05B 1/3006** (2013.01 - EP US); **B21B 45/0233** (2013.01 - EP US)

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 03024636 A1 20030327; AT E289234 T1 20050315; AU 2002333784 B2 20071025; BR 0209702 A 20040727; BR 0209702 B1 20100629; CA 2457036 A1 20030327; CA 2457036 C 20101012; CN 1258408 C 20060607; CN 1531469 A 20040922; CZ 20033420 A3 20041215; CZ 297372 B6 20061115; DE 10146113 A1 20030403; DE 50202294 D1 20050324; EP 1427549 A1 20040616; EP 1427549 B1 20050216; ES 2235109 T3 20050701; JP 2005528216 A 20050922; JP 4459618 B2 20100428; KR 100859316 B1 20080919; KR 20040028763 A 20040403; MX PA04002625 A 20040708; RU 2004111671 A 20050510; RU 2297895 C2 20070427; UA 79598 C2 20070710; US 2004251324 A1 20041216; US 6991186 B2 20060131; ZA 200308296 B 20040825

DOCDB simple family (application)

EP 0209795 W 20020903; AT 02798705 T 20020903; AU 2002333784 A 20020903; BR 0209702 A 20020903; CA 2457036 A 20020903; CN 02812255 A 20020903; CZ 20033420 A 20020903; DE 10146113 A 20010919; DE 50202294 T 20020903; EP 02798705 A 20020903; ES 02798705 T 20020903; JP 2003528325 A 20020903; KR 20037015154 A 20031121; MX PA04002625 A 20020903; RU 2004111671 A 20020903; UA 20040402817 A 20020903; US 48990104 A 20040317; ZA 200308296 A 20031024