

Title (en)

Cleaning device with nozzle fitting for cooling pipes

Title (de)

Reinigungsvorrichtung mit Düsenstock für Kühlrohre

Title (fr)

Dispositif de nettoyage doté d'un conduit de tuyère pour tuyaux de refroidissement

Publication

EP 2040021 A3 20091125 (DE)

Application

EP 08003923 A 20080303

Priority

- DE 102008008312 A 20080207
- DE 102007044747 A 20070918

Abstract (en)

[origin: EP2040021A2] The device has an injection-nozzle carrier arranged on top of cooling registers in a displaceable manner in a longitudinal direction of a cooling pipe, bearing a nozzle holder (50) with cleaning nozzles. A shallow beam run together with cooling fins transverse to a longitudinal direction of cooling pipes. The shallow beam includes variations from middle of a cooling pipe gap. A diameter of the cooling pipes is smaller than 40 millimeters, calculated without fins, not exceeding 5 degrees, or larger than 60 millimeters to 150 millimeters not exceeding 15 degrees.

IPC 8 full level

F28B 1/06 (2006.01); **F28G 1/16** (2006.01)

CPC (source: EP)

F28B 1/06 (2013.01); **F28G 1/166** (2013.01)

Citation (search report)

- [A] DE 10126700 A1 20030123 - J & W REINIGUNGSSYSTEME FUER T [DE]
- [A] EP 0800641 A1 19971015 - POLYBLOC AG [CH]
- [A] EP 0047731 A2 19820317 - VOEST ALPINE AG [AT]
- [A] EP 0957326 A2 19991117 - E W GOHL GMBH [DE]
- [DA] EP 1604164 A1 20051214 - J & W REINIGUNGSSYSTEME FUER T [DE]

Cited by

EP3650793A1; DE202011109780U1

Designated contracting state (EPC)

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

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 2040021 A2 20090325; EP 2040021 A3 20091125; EP 2040021 B1 20110302; AT E500481 T1 20110315; DE 102008008312 A1 20090319; DE 202008017288 U1 20090716; DE 502008002712 D1 20110414; ES 2357704 T3 20110428; ZA 200801975 B 20090826

DOCDB simple family (application)

EP 08003923 A 20080303; AT 08003923 T 20080303; DE 102008008312 A 20080207; DE 202008017288 U 20080207; DE 502008002712 T 20080303; ES 08003923 T 20080303; ZA 200801975 A 20080303