

Title (en)

A method of cleaning industrial components and a jet assembly for use therein.

Title (de)

Verfahren zur Reinigung von industriellen Teilen und Düsenanordnung bei diesem Verfahren.

Title (fr)

Procédé de nettoyage d'éléments industriels et système de jet pour la mise en oeuvre de ce procédé.

Publication

EP 0140505 A1 19850508 (EN)

Application

EP 84305549 A 19840815

Priority

- GB 8321917 A 19830815
- GB 8323960 A 19830907

Abstract (en)

An industrial component fluid jet (10) has a nozzle (12) comprising two coaxial tubes. The outer tube has a stepped bore. An annular swirl plate (15) is spigotted into an intermediate diameter bore portion (16) and has an end of the inner tube (22) spigotted into it. Cleaning fluid passed through the swirl plate (15) emerges into a chamber (21) with an axial directional component and a spinning action to form a hollow cone spray. Fluid emerging from the inner tube (22) only forms a pinpoint jet but cooperates with spinning fluid emerging simultaneously from the swirl plate (15) to form a solid cone jet. The jet (10) may be operated and orientated by a robot.

IPC 1-7

B05B 1/12; **B05B 12/00**; **B05B 13/04**; **B08B 3/02**

IPC 8 full level

B05B 1/12 (2006.01); **B05B 1/34** (2006.01); **B05B 13/04** (2006.01); **B08B 3/02** (2006.01)

CPC (source: EP)

B05B 1/12 (2013.01); **B05B 1/3415** (2013.01); **B05B 1/3478** (2013.01); **B05B 13/0431** (2013.01); **B08B 3/028** (2013.01)

Citation (search report)

- [YD] JP S5898154 A 19830610 - TANAKA MOTOHISA
- [YD] GB 1573424 A 19800820 - CERA INT LTD
- [AD] GB 2001262 A 19790131 - BAYER AG
- [A] US 4228958 A 19801021 - PERRY JAMES C
- [A] US 3674207 A 19720704 - CARBONETTI EMIDIO J JR, et al
- [A] EP 0034687 A1 19810902 - TOUSSAINT DEVILBISS SOCIETE AN [FR]
- [A] US 3888420 A 19750610 - BOELKINS WALLACE G

Cited by

EP4197643A1; EP0450222A3; CN103269628A; DE4342593C2; EP2059347A4; CN107744888A; FR2590827A1; EP0230165A1; CN102548671A; AU2010285111B2; EA021742B1; CN102481603A; EA021348B1; US8800089B2; US8685174B2; DE3731410A1; GB2210132A; GB2210132B; EP0892212A3; CZ303780B6; WO2011020734A3; WO8807895A1; DE102021133674A1; US8910889B2; WO2011020731A3; WO2011020733A3; EP3300973B1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0140505 A1 19850508; **EP 0140505 B1 19890315**; DE 3477141 D1 19890420

DOCDB simple family (application)

EP 84305549 A 19840815; DE 3477141 T 19840815