

Title (en)
ROTARY NOZZLE FOR A HIGH-PRESSURE CLEANING APPARATUS

Title (de)
ROTORDÜSE FÜR EIN HOCHDRUCKREINIGUNGSGERÄT

Title (fr)
AJUTAGE MOBILE POUR APPAREIL DE NETTOYAGE SOUS PRESSION

Publication
EP 0915739 A1 19990519 (DE)

Application
EP 97936691 A 19970807

Priority
• DE 19632323 A 19960810
• EP 9704312 W 19970807

Abstract (en)
[origin: US6029906A] A rotary nozzle for a high-pressure cleaning apparatus has a housing into which a feed line for a cleaning fluid issues, an outlet provided in the housing for expelling the cleaning fluid, a nozzle body through which the cleaning fluid flows, and a bearing that surrounds the outlet. The nozzle body is disposed in the housing, and is supported at its convex end in the bearing. The bearing is formed directly in an inner wall of the housing as a conically-shaped depression to avoid the need for a separate bearing insert, thereby simplifying the manufacturing process. Additionally, the conical shape of the bearing cooperates with the convex shape of the nozzle body to provide optimal sealing with a reduced contact surface for a long service life. The bearing is disposed concentrically relatively to the outlet. The nozzle body is set by the flow of cleaning fluid through the housing in a revolving movement in which a longitudinal axis of the nozzle body revolves on a generated cone.

IPC 1-7
B05B 3/04

IPC 8 full level
B05B 3/04 (2006.01)

CPC (source: EP US)
B05B 3/0463 (2013.01 - EP US)

Citation (search report)
See references of WO 9806501A1

Cited by
WO2011080603A2; WO2011080602A2

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IT LI LU NL PT SE

DOCDB simple family (publication)
US 6029906 A 20000229; AT E236726 T1 20030415; CA 2262733 A1 19980219; CA 2262733 C 20040413; DE 19632323 A1 19980212; DE 59709796 D1 20030515; DK 0915739 T3 20030428; EP 0915739 A1 19990519; EP 0915739 B1 20030409; WO 9806501 A1 19980219

DOCDB simple family (application)
US 24716799 A 19990209; AT 97936691 T 19970807; CA 2262733 A 19970807; DE 19632323 A 19960810; DE 59709796 T 19970807; DK 97936691 T 19970807; EP 9704312 W 19970807; EP 97936691 A 19970807