

Title (en)

Rotary nozzle for high pressure cleaning appliances

Title (de)

Rotordüse für ein Hochdruckreinigungsgerät

Title (fr)

Ajutage rotatif pour appareils de nettoyage à haute pression

Publication

EP 0865827 A3 19990721 (DE)

Application

EP 98102582 A 19980214

Priority

- DE 29705058 U 19970320
- DE 29708394 U 19970510
- DE 29717124 U 19970926

Abstract (en)

[origin: US5941458A] A rotor nozzle for a high pressure cleaning device has a housing and a rotor disk which is mounted to rotate in the housing and which is exposed to the flow of the cleaning liquid, and with a nozzle carrier located downstream of the rotor disk which carries a nozzle which has an outlet axis that is at an acute angle relative to the axis of rotation of the rotor disk and which, along with nozzle carrier, is moved by the rotor disk on a circular path around its axis of rotation such that the jet of cleaning liquid emerging from nozzle creates a circulating conical envelope. The planetary gear transfers the drive motion of the rotor disk with considerably stepped-down rpm to the nozzle carrier via a sun wheel which is connected to the rotor disk, a planet wheel which is connected to the nozzle carrier, and a ring gear that is formed or located on the inside of the housing in which the planet wheel rolls, driven by the sun wheel. Still further, the nozzle has a spherical front that is supported in a socket-like seal which is attached to the housing and which is open in the middle. The nozzle carrier is inclined in the direction of the outlet axis of the nozzle and the planet wheel of the planetary gear is pivotally mounted on the rear end of the nozzle carrier so as to allow relative rotation between them.

IPC 1-7

B05B 3/04; B08B 3/02

IPC 8 full level

B05B 3/04 (2006.01)

CPC (source: EP US)

B05B 3/0463 (2013.01 - EP US)

Citation (search report)

- [A] EP 0563595 A1 19931006 - JAEGER ANTON [DE]
- [A] US 4708290 A 19871124 - OSMOND DENNIS R C [GB]
- [DA] DE 29512768 U1 19951102 - SUTTNER GMBH & CO KG [DE]
- [DA] DE 4433646 A1 19950330 - JAEGER ANTON [DE]

Cited by

FR2804886A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

US 5941458 A 19990824; EP 0865827 A2 19980923; EP 0865827 A3 19990721; EP 0865827 B1 20030102

DOCDB simple family (application)

US 4170398 A 19980313; EP 98102582 A 19980214