

Title (en)  
Rotor nozzle

Title (de)  
Rotordüse

Title (fr)  
Buse à rotor

Publication  
**EP 0891816 B1 20040211 (DE)**

Application  
**EP 98112490 A 19980706**

Priority  
DE 19730339 A 19970715

Abstract (en)  
[origin: EP0891816A2] The nozzle has a rotating jet (8) which is mounted in a holder (7), and enclosed in a housing (1). The nose of the jet is spherical and engages with, and rotates in, a cupped spherical seat (9) in the housing. The upstream end of the jet holder travels in a circular orbit around a conical guide peg (18). The jet holder has an elastically sleeve (21) made of plastics material, which slides over the holder (7), and has an internal ridge (24) which sits in a groove (25) in the holder and is retained by an O-ring (26). Part of the length (22) of the sleeve bears against the inner wall (23) of the housing. There are longitudinal grooves in the outer surface of the sleeve or the inner surface of the housing, and, in the contact zone, the inner wall of the housing is longitudinally ribbed. Alternatively, the jet holder can carry a spur gear which engages with an internal gear ring in the housing.

IPC 1-7  
**B05B 3/04**

IPC 8 full level  
**B05B 3/04** (2006.01)

CPC (source: EP)  
**B05B 3/0463** (2013.01)

Cited by  
DE102009020409A1; US8540170B2; DE10154509A1; EP2390006A1; DE19833261A1; DE19833261C2; US6755358B2; EP2251091A2; DE202010018423U1

Designated contracting state (EPC)  
DE DK FR IT

DOCDB simple family (publication)  
**EP 0891816 A2 19990120; EP 0891816 A3 20000531; EP 0891816 B1 20040211**; DE 19730339 A1 19990121; DE 59810734 D1 20040318

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**EP 98112490 A 19980706**; DE 19730339 A 19970715; DE 59810734 T 19980706