

Title (en)  
Suction nozzle

Title (de)  
Saugdüse

Title (fr)  
Tête de succion

Publication  
**EP 1077290 A1 20010221 (DE)**

Application  
**EP 00117447 A 20000811**

Priority  
DE 29914329 U 19990816

Abstract (en)  
A flap for a suction nozzle has a concave surface and a device for fastening the flap (2) to a retaining device (8) so that the concave surface can pivot about a pivot axis. The concave surface is V-shaped. The concave surface is designed in an almost continuous curve. The suction nozzle is designed as concave ,especially V-shaped or continuously curved. The suction nozzle has a flap and a retaining device to the pivoting support of the flap. The suction nozzle has the flap for changing the suction cross-section according to a material to be sucked up and lying in front of the nozzle. There is a movement device for the flap.

Abstract (de)  
Eine Saugdüse für eine Saugmaschine, welche ein effizientes Aufnehmen von Kehricht ermöglicht, ist mit einer Klappe mit einer konkaven Oberfläche versehen. Die Klappe ist durch eine Vorrichtung an einer Haltevorrichtung befestigt, so daß die konkave Oberfläche um eine Schwenkachse schwenken kann.

IPC 1-7  
**E01H 1/08**

IPC 8 full level  
**A47L 9/02** (2006.01); **B08B 5/04** (2006.01); **E01H 1/08** (2006.01)

CPC (source: EP)  
**B08B 5/04** (2013.01); **E01H 1/0836** (2013.01)

Citation (search report)  
• [XAY] DE 9415472 U1 19941117 - ERNST AUGL GES M B H & CO KG [AT]  
• [Y] US 4062085 A 19771213 - DUNCAN IAN JAMES  
• [Y] US 3675266 A 19720711 - MURRAY GREGORY J, et al  
• [Y] DE 19520778 C1 19960718 - PIERAU JUERGEN [DE]  
• [X] WO 9742378 A1 19971113 - ELGIN SWEEPER CO [US]  
• [X] DE 29518844 U1 19960404 - STADT MUENSTER VERTRETEN DURCH [DE]

Cited by  
CN102767151A; CN103628440A; DE102017110774A1; US9826869B2

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

DOCDB simple family (publication)  
**EP 1077290 A1 20010221**; **EP 1077290 B1 20030521**; AT E241043 T1 20030615; CZ 20002917 A3 20010411; CZ 300599 B6 20090624; DE 29914329 U1 20001228; DE 50002242 D1 20030626; ES 2199729 T3 20040301; PL 207542 B1 20101231; PL 342025 A1 20010226; PT 1077290 E 20031031

DOCDB simple family (application)  
**EP 00117447 A 20000811**; AT 00117447 T 20000811; CZ 20002917 A 20000809; DE 29914329 U 19990816; DE 50002242 T 20000811; ES 00117447 T 20000811; PL 34202500 A 20000816; PT 00117447 T 20000811