

Title (en)
Flat-jet nozzle, especially for use in a high-pressure cleaner

Title (de)
Flachstrahldüse, insbesondere für Hochdruckreiniger

Title (fr)
Buse à jet plat, en particulier pour nettoyeur haute pression

Publication
EP 0655281 B1 19960117 (EN)

Application
EP 94117416 A 19941104

Priority
DK 132593 A 19931125

Abstract (en)
[origin: EP0655281A1] In a liquid-jet nozzle (1) for ejecting a progressively flattening jet (6) of cleaning liquid at high pressure, said liquid-jet nozzle being of the kind comprising a) a nozzle aperture (5) extending through an end wall (7) extending transversely to the main direction of flow of the liquid jet (6), b) upstream of the nozzle aperture (5) and opening into the latter an inlet chamber (2) connected to the outlet of the liquid pump (3) of the high-pressure cleaner, and c) in the upstream side of the end wall (7), an elongate recess (8), the longitudinal central axis of which intersects the central axis of the nozzle aperture (5) at right angles, the new feature consists in d) that the recess (8) is oval and consists of ipsilaterally concavely curved surfaces extending smoothly into each other so as to form a continuous surface without sudden transitions or sharp edges. With this arrangement, turbulence is avoided in the inlet chamber (2) and in the nozzle aperture (5) itself, so that the jet (6) can flatten progressively so as to form a very sharp profile (6d) functioning almost like the edge of a scraper. <IMAGE>

IPC 1-7
B05B 1/04

IPC 8 full level
B05B 1/04 (2006.01)

CPC (source: EP)
B05B 1/042 (2013.01)

Cited by
EP0861690A3; EP0792692A4; EP1046426A3; EP0862950A1; DE19541174A1; DE19541174C2

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

DOCDB simple family (publication)
EP 0655281 A1 19950531; EP 0655281 B1 19960117; AT E133091 T1 19960215; DE 69400060 D1 19960229; DE 69400060 T2 19960704; DE 9417806 U1 19941222; DK 132593 A 19950526; DK 132593 D0 19931125; DK 171017 B1 19960422

DOCDB simple family (application)
EP 94117416 A 19941104; AT 94117416 T 19941104; DE 69400060 T 19941104; DE 9417806 U 19941107; DK 132593 A 19931125