

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 A1 19950531 (EN)**

Application  
**EP 94117416 A 19941104**

Priority  
DK 132593 A 19931125

Abstract (en)  
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)

Citation (search report)  
• [X] US 4097000 A 19780627 - DERR BERNARD A  
• [DA] DE 4213226 A1 19931104 - LECHLER GMBH & CO KG [DE]  
• [PA] WO 9417921 A1 19940818 - KAERCHER GMBH & CO ALFRED [DE], et al

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

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