

Title (en)
ULTRASONIC WASHING APPARATUS

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EP 0450222 A3 19920729 (EN)

Application
EP 90308705 A 19900808

Priority
JP 8856090 A 19900403

Abstract (en)
[origin: EP0450222A2] A spray type ultrasonic washing apparatus including a coaxial nozzle structure (1) which comprises inner and outer hollow conical frustums (3,2) for supplying nondeaerated washing liquid (12) by way of the annular passage (7) delimited between the frustums and supplying deaerated washing liquid (11) by way of the inner frustum, thus causing the deaerated washing liquid to be enclosed by nondeaerated washing liquid when spraying on a surface to be washed, so as to isolate the deaerated washing liquid from the surrounding atmosphere and thereby preventing invasion of air into the same. This enables cavitation to be formed effectively in the deaerated washing liquid, thereby increasing washing efficiency. <IMAGE>

IPC 1-7
B08B 3/12

IPC 8 full level
B05B 7/06 (2006.01); **B08B 3/12** (2006.01)

CPC (source: EP)
B08B 3/12 (2013.01); **B08B 2203/0288** (2013.01)

Citation (search report)
• [A] EP 0140505 A1 19850508 - CERA LTD [GB]
• [A] GB 2018626 A 19791024 - KAERCHER GMBH & CO ALFRED
• [A] DE 3916446 A1 19900315 - AUTOBAHNBAUKOMBINAT VEB [DD]

Cited by
EP0675525A1; CN107876230A; CN105834165A; EP3450103A1; US11679454B2; US10836012B2; EP3450105A1; CN109420986A; CN109420987A

Designated contracting state (EPC)
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