

Title (en)
A rotary atomiser with a rotating bell

Title (de)
Rotationszerstäuber mit einem Glockenkörper

Title (fr)
Atomatiseur rotatif à cloche

Publication
EP 0715896 A3 19970423 (DE)

Application
EP 95119236 A 19951206

Priority
DE 9419641 U 19941207

Abstract (en)
[origin: CA2164564A1] A rotary atomizer with a bell element (1) mountable on the rotating shaft of a drive motor comprises an outer overflow surface (2), a spray edge (3) at a front side of the bell element (1), a lateral outer surface (5) at the perimeter of the bell element extending from the spray edge (3), and a hose line (9) in fluid communication with a source of cleaning fluid. Rinsing the outer surface (5) at the perimeter of the bell element (1) of a rotary atomizer is facilitated. The rinsing agent is directed without spattering, through centrifugal force, from the interior to the outer surface (5) and is distributed uniformly across the perimeter. The rinsing agent can branch off centrally from a fast-rinsing valve and move to a collection space (29, 15) located radially within the outer surface (5), from where it flows via the rear, preferably rounded bell dome edge (6). Alternatively, the rinsing agent can be supplied separately via a separate valve.

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B05B 3/10

IPC 8 full level
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CPC (source: EP KR US)
B05B 3/10 (2013.01 - KR); **B05B 3/1014** (2013.01 - EP US); **B05B 3/1042** (2013.01 - EP US); **B05B 3/1064** (2013.01 - EP US); **B05B 15/55** (2018.01 - US); **B05B 15/555** (2018.01 - EP); **B05B 3/1092** (2013.01 - EP US)

Citation (search report)
• [Y] DE 4201379 A1 19930722 - BARAL KARL HEINZ [DE]
• [DY] DE 4306799 A1 19940908 - DUERR GMBH & CO [DE]
• [X] DE 3912700 C1 19901011
• [XA] EP 0421866 A1 19910410 - SAMES SA [FR]
• [A] EP 0454548 A1 19911030 - SAMES SA [FR]
• [X] DE 3135721 A1 19830331 - RANSBURG GMBH [DE]

Cited by
DE102018129964A1; WO2011018169A1; WO2020108930A1; DE19938093B4; EP0864367A4; US6050499A; DE19636159A1; CN102574136A; US9126211B2; DE102009037604A1; US9126217B2; WO2011035887A1; DE102009042956A1; US9180469B2; DE102018129964B4; FR3087680A1; WO2020089242A1; US11998940B2; EP2529844A1; DE102021127163A1; WO2023066673A1; WO2023066996A1

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DE 9419641 U1 19950202; AU 4022995 A 19960613; BR 9505688 A 19971111; CA 2164564 A1 19960608; CA 2164564 C 20100316; CZ 286837 B6 20000712; CZ 308295 A3 19970917; DE 59509156 D1 20010510; EP 0715896 A2 19960612; EP 0715896 A3 19970423; EP 0715896 B1 20010404; ES 2088776 T1 19960916; ES 2088776 T3 20010816; JP 3940445 B2 20070704; JP H08332415 A 19961217; KR 100384649 B1 20030821; KR 960021162 A 19960718; MX 9505093 A 19981031; US 5707009 A 19980113

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