

Title (en)  
Spraying device

Title (de)  
Sprühvorrichtung

Title (fr)  
Pulvérisateur

Publication  
**EP 0888977 A3 19990506 (DE)**

Application  
**EP 98111138 A 19980617**

Priority  
DE 19726583 A 19970623

Abstract (en)  
[origin: EP0888977A2] The equipment comprises a vessel with outlet nozzle and containing a partly-liquefied gas mixture under pressure. A cap (5) on the nozzle has an outlet port (9) through which the nozzle discharges. The cap and mixture can also be used for drain-cleaning and local refrigeration if desired, and for blowing passages clear. The cap can be so shaped as to fit against an opening, particularly the drain from a wash basin and along an annular surface, so that no gas can escape sideways.

IPC 1-7  
**B65D 83/14**

IPC 8 full level  
**B65D 83/14** (2006.01); **B65D 83/16** (2006.01)

CPC (source: EP)  
**B65D 83/20** (2013.01); **B65D 83/303** (2013.01); **B65D 83/34** (2013.01); **B65D 83/72** (2013.01); **B65D 83/752** (2013.01)

Citation (search report)

- [X] FR 2405875 A1 19790511 - BRUGGER SPA [IT]
- [A] FR 2381683 A1 19780922 - OREAL [FR]
- [A] US 5477993 A 19951226 - MAEDA KIYOSHIKA [JP]
- [A] GB 2154993 A 19850918 - DURACELL INT
- [A] DE 9209492 U1 19921029
- [X] DE 4201342 C1 19930325
- [X] US 3792802 A 19740219 - GORES K
- [A] DE 4123663 A1 19930121 - SCHWABE WILLMAR GMBH & CO [DE]
- [A] DE 4405127 A1 19950831 - HENKEL KGAA [DE]

Cited by  
US8745771B2; US8739968B2

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

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**EP 0888977 A2 19990107; EP 0888977 A3 19990506; EP 0888977 B1 20011212**; AT E210583 T1 20011215; DE 19726583 A1 19981224; DE 59802399 D1 20020124

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