

Title (en)  
SPRAYING OF LIQUIDS

Title (de)  
SPRÜHEN VON FLÜSSIGKEITEN

Title (fr)  
PULVERISATION DE LIQUIDES

Publication  
**EP 1283749 A2 20030219 (EN)**

Application  
**EP 01937671 A 20010523**

Priority

- GB 0012563 A 20000525
- GB 0012640 A 20000525
- GB 0104649 A 20010224
- GB 0104667 A 20010224
- US 0116691 W 20010523

Abstract (en)  
[origin: WO0189708A2] A method and equipment for applying a liquid product onto a household article or plant for purpose of cleaning, wetting, coating, polishing, fabric treatment, plant watering and the like, the method comprising discharging the liquid through a spray nozzle in the form of an upwardly or downwardly directed spray of droplets having an average droplet size of at least about 40  $\mu\text{m}$  and preferably in the range from about 75 to about 500  $\mu\text{m}$  and at a proximal distance of from about 0.1 to about 1 m from the household article or plant, the liquid being discharged through the spray nozzle at an exit velocity in the range from about 3 to about 80 m/s, preferably from about 3 to about 20 m/s (when the spray droplets are upwardly directed) and from about 0 to about 2 m/s (when the spray droplets are downwardly directed) and at an applied potential in the range from about 0.2 to about 50 kV, whereby the overspray is less than about 40%. The equipment preferably comprises a nozzle having a multi-jet spray head, means for adjusting the orientation of the nozzle and grounding means for charge dissipation. The method and equipment provide effective coverage of household objects/plants and avoid spoil and waste of the liquid in the surroundings of the household object/plant.

IPC 1-7  
**B05B 5/16**

IPC 8 full level  
**A01G 25/00** (2006.01); **A01C 23/00** (2006.01); **A01G 25/14** (2006.01); **A01G 25/16** (2006.01); **A01M 7/00** (2006.01); **A01M 21/04** (2006.01); **B05B 5/025** (2006.01); **B05B 5/08** (2006.01); **B05B 5/16** (2006.01); **B05B 11/00** (2006.01); **B05D 1/04** (2006.01); **B05D 7/00** (2006.01); **D06F 43/00** (2006.01); **D06F 73/00** (2006.01); **D06F 87/00** (2006.01)

CPC (source: EP)  
**B05B 5/1691** (2013.01); **D06F 43/00** (2013.01); **D06F 87/00** (2013.01)

Citation (search report)  
See references of WO 0189708A2

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

DOCDB simple family (publication)  
**WO 0189708 A2 20011129**; **WO 0189708 A3 20020627**; AU 6338401 A 20011203; CA 2408149 A1 20011129; EP 1283749 A2 20030219; JP 2003534120 A 20031118; NZ 522177 A 20040730

DOCDB simple family (application)  
**US 0116691 W 20010523**; AU 6338401 A 20010523; CA 2408149 A 20010523; EP 01937671 A 20010523; JP 2001585937 A 20010523; NZ 52217701 A 20010523