

Title (en)
Device for spraying a liquid.

Title (de)
Vorrichtung zum Versprühen oder Zerstäuben einer Flüssigkeit.

Title (fr)
Dispositif pour pulvériser un liquide.

Publication
EP 0510469 B1 19950628 (DE)

Application
EP 92106325 A 19920413

Priority
CH 121491 A 19910423

Abstract (en)
[origin: EP0510469A1] The device serves for spraying and atomising a liquid which is located in a container (1) which can be emptied by means of air pressure. If, in such a device, a liquid nozzle protrudes into a mixing nozzle arranged coaxially in front of it so that an annular space for air which is present around the liquid nozzle is open to the mixing nozzle at the front, the feed paths for liquid and for air must not be confused. Confusion occurs if a container is placed on its head during spraying. In order to avoid this disadvantage, two annular spaces (18, 19) are present from which channels (22-25) lead to a mixing nozzle (27). The two annular spaces communicate with one another via restrictor slots (20). Thanks to the two annular spaces (18, 19), the liquid can even be sprayed if the container is upside down. <IMAGE>

IPC 1-7
B05B 11/04; **B05B 7/10**

IPC 8 full level
B65D 83/40 (2006.01); **B05B 7/00** (2006.01); **B05B 7/10** (2006.01); **B05B 9/047** (2006.01); **B05B 11/00** (2006.01); **B05B 11/04** (2006.01); **B65D 47/26** (2006.01); **B65D 83/34** (2006.01); **B65D 83/36** (2006.01); **B05B 1/34** (2006.01)

CPC (source: EP US)
B05B 7/0031 (2013.01 - EP US); **B05B 7/10** (2013.01 - EP US); **B05B 11/0029** (2013.01 - EP US); **B05B 11/043** (2013.01 - EP US); **B05B 1/3442** (2013.01 - EP US)

Cited by
NL2009219C2; EP0706830A1; EP3275492A1; EP3711801A1; WO2014017904A1

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

DOCDB simple family (publication)
EP 0510469 A1 19921028; **EP 0510469 B1 19950628**; AT E124298 T1 19950715; CH 680582 A5 19920930; DE 59202655 D1 19950803; JP 2547363 B2 19961023; JP H05213382 A 19930824; US 5275338 A 19940104

DOCDB simple family (application)
EP 92106325 A 19920413; AT 92106325 T 19920413; CH 121491 A 19910423; DE 59202655 T 19920413; JP 12815092 A 19920421; US 87083392 A 19920420