

Title (en)

Apparatus for spraying liquids, and disposable containers and liners suitable for use therewith

Title (de)

Vorrichtung zum Sprühen von Flüssigkeiten und Einwegbehälter und "Liner" dafür

Title (fr)

Appareil de pulvérisation de liquides et récipients et garnitures jetables utilisables avec celui-ci

Publication

EP 2090373 A3 20111102 (EN)

Application

EP 09006817 A 19980114

Priority

- GB 9701447 A 19970124
- GB 9712784 A 19970618
- EP 04002190 A 19980114
- EP 98901823 A 19980114
- US 9800796 W 19980114

Abstract (en)

[origin: EP1415719A1] Spray gun comprises a spray nozzle and a removable liner (35) that fits closely into a reservoir (6). The liner collapses as fluid is dispensed from the nozzle. Preferably the spray gun is gravity fed. The fluid reservoir and liner are removable and collapsible for disposal. The liner is secured to the reservoir by a removable lid. The reservoir (container) is plastic, especially polypropylene or polyethylene. The liner is semi-rigid thermo-vacuum formed plastic.

IPC 8 full level

B05B 7/24 (2006.01); **B05B 15/06** (2006.01)

CPC (source: EP KR US)

B05B 7/24 (2013.01 - EP KR US); **B05B 7/2408** (2013.01 - EP); **B05B 7/2478** (2013.01 - EP); **B05B 7/2481** (2013.01 - EP);
B05B 15/62 (2018.01 - US)

Citation (search report)

- [XA] US 5248089 A 19930928 - BEKIUS WAYNE [US]
- [Y] US 3432104 A 19690311 - KALTENBACH THEODORE L
- [Y] EP 0678334 A2 19951025 - RANSBURG CORP [US]

Cited by

US10035156B2; US10882064B2; US11040360B2; US11548018B1; US11679399B2

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 1415719 A1 20040506; EP 1415719 B1 20061129; CA 2660187 A1 19980730; CA 2660187 C 20130709; DE 69841278 D1 20091217;
EP 1435265 A2 20040707; EP 1435265 A3 20041103; EP 1435265 B1 20091104; EP 1435265 B2 20130306; EP 1579922 A1 20050928;
EP 1579922 B1 20120418; EP 1611960 A1 20060104; EP 1611960 B1 20170830; EP 2090373 A2 20090819; EP 2090373 A3 20111102;
EP 2090373 B1 20140618; EP 2090373 B2 20200318; EP 2105208 A2 20090930; EP 2105208 A3 20111102; EP 2105208 B1 20130227;
ES 2386145 T3 20120810; ES 2406109 T3 20130605; ES 2491518 T3 20140908; ES 2497497 T3 20140923; ES 2504218 T3 20141008;
GB 9701447 D0 19970312; GB 9712784 D0 19970820; HK 1085688 A1 20060901; KR 100497450 B1 20050701; KR 20000070405 A 20001125

DOCDB simple family (application)

EP 03020831 A 19980114; CA 2660187 A 19980114; DE 69841278 T 19980114; EP 04002190 A 19980114; EP 05010707 A 19980114;
EP 05020408 A 19980114; EP 09006815 A 19980114; EP 09006817 A 19980114; ES 05010707 T 19980114; ES 08103274 T 19980114;
ES 09006815 T 19980114; ES 09006816 T 19980114; ES 09006817 T 19980114; GB 9701447 A 19970124; GB 9712784 A 19970618;
HK 06103279 A 20000428; KR 19997006639 A 19990723