

Title (en)

Refillable dispensing container, filling device and method of filling the dispensing containers

Title (de)

Wiederbefüllbarer Ausgabebehälter, Befüllgerät und Verfahren zum Befüllen des Ausgabebehälters

Title (fr)

Récipient de distribution rechargeable, dispositif de remplissage et procédé de remplissage du récipient

Publication

EP 0662431 B1 19990728 (DE)

Application

EP 94120805 A 19941228

Priority

- DE 4400062 A 19940104
- DE 4429161 A 19940817

Abstract (en)

[origin: US5645113A] A refillable distributing container for liquid media, particularly an aerosol can, has two valves, whereof an upper valve is constructed as the distributing valve (5) for exclusively distributing the container content. The second valve is constructed for filling the container both with liquid medium and with pressurized gas. The invention also relates to a filling device for refilling the distributing container and a process for the same. The filling device has a filling connection (9), which is connectable with the distributing container filling valve (8). The liquid is preferably forced in to the distributing container with the aid of the pressurized gas.

IPC 1-7

B65D 83/14; B65B 31/00

IPC 8 full level

B65D 83/44 (2006.01); **B65B 31/00** (2006.01); **B65D 83/14** (2006.01)

CPC (source: EP US)

B65B 31/003 (2013.01 - EP US); **B65D 83/42** (2013.01 - EP US)

Cited by

EP2634112A1; DE102012101635A1; US10322085B2; US9668972B2; US9713643B2; US9849142B2; US10517882B2; EP2141087A2; DE102008031289A1; US10821077B2; US11033491B2; US9682021B2; US9795564B2; US11433025B2; US9662298B2; US10369102B2; US11103454B2; US9884017B2; US10213384B2; US10363216B2; US10588858B2; US9622947B2; US10092588B2; US10117812B2; US11219631B2; US10350166B2; US10398641B2; US10849847B2; US11324691B2; US9636405B2; US9675700B2; US10029013B2; US10086080B2; US10137200B2; US10213512B2; US10238746B2; US10265404B2; US10322186B2; US10463742B2; US10610599B2; US10821187B2; US10835613B2; US10946101B2; US10967063B2

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI NL PT SE

DOCDB simple family (publication)

US 5645113 A 19970708; AT E182550 T1 19990815; AT E207840 T1 20011115; AT E224330 T1 20021015; AU 686274 B2 19980205; AU 8181494 A 19950713; DE 9422052 U1 19971030; DK 0662431 T3 20000306; DK 0909722 T3 20030127; EP 0662431 A2 19950712; EP 0662431 A3 19950913; EP 0662431 B1 19990728; ES 2137305 T3 19991216; ES 2167833 T3 20020516; ES 2185105 T3 20030416; FI 950045 A0 19950104; FI 950045 A 19950705; GR 3031622 T3 20000131; JP 3251795 B2 20020128; JP H07206057 A 19950808; NO 310969 B1 20010924; NO 950017 D0 19950103; NO 950017 L 19950705; NO 994975 D0 19991013; NO 994975 L 19950705; NO 994976 D0 19991013; NO 994976 L 19950705; PT 906872 E 20020429; PT 909722 E 20030228

DOCDB simple family (application)

US 36952195 A 19950104; AT 94120805 T 19941228; AT 98123870 T 19941228; AT 98123881 T 19941228; AU 8181494 A 19941230; DE 9422052 U 19940817; DK 94120805 T 19941228; DK 98123881 T 19941228; EP 94120805 A 19941228; ES 94120805 T 19941228; ES 98123870 T 19941228; ES 98123881 T 19941228; FI 950045 A 19950104; GR 990402661 T 19991027; JP 33742694 A 19941228; NO 950017 A 19950103; NO 994975 A 19991013; NO 994976 A 19991013; PT 98123870 T 19941228; PT 98123881 T 19941228