

Title (en)

Pressurized gas driven liquid dispensing device comprising a piercing unit

Title (de)

Druckgasbetriebene Flüssigkeitsausgabevorrichtung mit Durchstecheinheit

Title (fr)

Dispositif de distribution de liquides à gaz pressurisé comportant une unité de perforation

Publication

**EP 2336078 A1 20110622 (EN)**

Application

**EP 09015694 A 20091218**

Priority

EP 09015694 A 20091218

Abstract (en)

Liquid dispensing device comprising: #c a container for containing a liquid; #c a cartridge (10) containing a pressurized propellant gas closed by a closure (11); and #c a piercing unit (101) for piercing the closure (11) of the cartridge (10) and thus bringing the pressurized propellant gas into fluid communication with the container, said piercing unit comprising: o a piercing member (1) arranged to pierce the closure (11) of the cartridge (10) by a linear motion thereof along a first direction (d); o an actuating unit (2) to actuate the linear motion of the piercing member (1) along said first direction (d); wherein the actuating unit (2) is activated to actuate the linear motion of the piercing member (1) by application thereto of a compression or a tensile force (F) along a second direction, substantially normal to the first direction (d).

IPC 8 full level

**B67D 1/04** (2006.01); **B67D 1/00** (2006.01)

CPC (source: EP)

**B67D 1/0406** (2013.01); **B67D 1/0418** (2013.01); **B67D 2210/00131** (2013.01)

Citation (applicant)

- US 5199609 A 19930406 - ASH JR WILLIAM O [US]
- US 5240144 A 19930831 - FELDMAN JOSEPH [IL]
- US 5251787 A 19931012 - SIMSON ANTON K [US]
- US 5383576 A 19950124 - RICHTER SIMON J [US], et al
- EP 0149352 A2 19850724 - MITSUBISHI CORP [JP], et al
- WO 2007145641 A1 20071221 - STURMAN BG LLC [US], et al
- GB 1427732 A 19760310 - BREW IT YOURSELF MFG EXPORT LT
- GB 1163761 A 19690910 - EURACOM S P R L [BE]
- US 3372838 A 19680312 - SMITH JOSEPH W, et al
- WO 2006128653 A1 20061207 - OBERHOFER KURT [DE], et al

Citation (search report)

- [XDA] EP 0149352 A2 19850724 - MITSUBISHI CORP [JP], et al
- [A] WO 2008060152 A1 20080522 - HEINEKEN SUPPLY CHAIN BV [NL], et al
- [AD] US 5199609 A 19930406 - ASH JR WILLIAM O [US]
- [AD] US 5240144 A 19930831 - FELDMAN JOSEPH [IL]
- [AD] US 5251787 A 19931012 - SIMSON ANTON K [US]
- [AD] US 5383576 A 19950124 - RICHTER SIMON J [US], et al
- [AD] WO 2007145641 A1 20071221 - STURMAN BG LLC [US], et al
- [AD] GB 1427732 A 19760310 - BREW IT YOURSELF MFG EXPORT LT
- [AD] GB 1163761 A 19690910 - EURACOM S P R L [BE]
- [AD] US 3372838 A 19680312 - SMITH JOSEPH W, et al
- [AD] WO 2006128653 A1 20061207 - OBERHOFER KURT [DE], et al

Cited by

US9562288B2; US2014322445A1; US10106394B2; WO2014176378A3

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**EP 2336078 A1 20110622**

DOCDB simple family (application)

**EP 09015694 A 20091218**