

Title (en)  
APPLICATION SYSTEM

Title (de)  
APPLIKATIONSSYSTEM

Title (fr)  
SYSTÈME D'APPLICATION

Publication  
**EP 3661858 B1 20221019 (DE)**

Application  
**EP 18750408 A 20180802**

Priority  
• DE 102017117557 A 20170802  
• EP 2018070990 W 20180802

Abstract (en)  
[origin: WO2019025539A2] The invention relates to an application system comprising a cartridge (1) having at least one container (2) with a respective outlet (9), and a closure element (3) that can sealingly close the outlet (9) of the at least one container (2) when the cartridge (1) is in the delivery state. When in the storage state, the cartridge (1) sealingly closes the closure element (3). When the cartridge (1) is in the state of use, the closure element (3) can be removed therefrom and an accessory (11) can be connected to the outlet (9) of the at least one container (2). According to the invention, the cartridge (1) or the closure element (3) comprises, in the delivery state, a connecting element (4) which can not be removed without being damaged, and the cartridge (1) or the closure element (3), in the storage state, is connected via a connecting element (4) that can not be removed without being damaged, to a closure element (3) or the cartridge (1).

IPC 8 full level  
**B65D 83/00** (2006.01); **B65D 51/24** (2006.01); **B65D 51/28** (2006.01); **B65D 55/02** (2006.01)

CPC (source: EP KR US)  
**B05C 17/00513** (2013.01 - EP KR US); **B05C 17/00553** (2013.01 - KR US); **B65D 51/245** (2013.01 - EP KR US);  
**B65D 51/28** (2013.01 - EP KR US); **B65D 55/02** (2013.01 - EP US); **B65D 55/024** (2013.01 - EP KR); **B65D 83/0005** (2013.01 - EP KR);  
**B65D 83/0016** (2013.01 - US); **B05C 17/00553** (2013.01 - EP); **B65D 2203/10** (2013.01 - EP KR US); **B65D 2401/10** (2020.05 - EP KR US)

Designated contracting state (EPC)  
AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2019025539 A2 20190207; WO 2019025539 A3 20190404;** BR 112019028271 A2 20200714; BR 112019028271 B1 20240305;  
CA 3070886 A1 20190207; CN 111065587 A 20200424; DE 102017117557 A1 20190207; EP 3661858 A2 20200610; EP 3661858 B1 20221019;  
JP 2020529369 A 20201008; JP 6915150 B2 20210804; KR 102496828 B1 20230207; KR 20200037829 A 20200409;  
RU 2020108664 A 20210902; US 11648582 B2 20230516; US 2021154697 A1 20210527

DOCDB simple family (application)

**EP 2018070990 W 20180802;** BR 112019028271 A 20180802; CA 3070886 A 20180802; CN 201880050002 A 20180802;  
DE 102017117557 A 20170802; EP 18750408 A 20180802; JP 2020505497 A 20180802; KR 20207005931 A 20180802;  
RU 2020108664 A 20180802; US 201816633125 A 20180802