

Title (en)

TRIGGER SPRAYER WITH VENTING MEMBRANE

Title (de)

ZERSTÄUBER VOM TRIGGERTYP MIT LÜFTUNGSMEMBRAN

Title (fr)

PULVERISATEUR A GACHETTE A MEMBRANE DE VENTILATION

Publication

EP 1761339 A2 20070314 (EN)

Application

EP 05731014 A 20050324

Priority

- US 2005009693 W 20050324
- US 55628004 P 20040325

Abstract (en)

[origin: WO2005094492A2] A trigger sprayer is provided with a passive venting system of simplified and inexpensive construction. A gas permeable, liquid impermeable membrane is positioned over a vent opening in the trigger sprayer housing and prevents the leakage of liquid from a container attached to the trigger sprayer, while allowing the venting of air from the exterior of the trigger sprayer to the container interior. The membrane is secured to a vent opening wall of the sprayer housing that is positioned coplanar and continuous with an annular surface of the sprayer housing. This enables the use of a single flat gasket to seal around the vent opening and seal between the trigger sprayer and the liquid container attached to the trigger sprayer.

IPC 8 full level

B05B 11/00 (2006.01)

CPC (source: EP)

B05B 11/0044 (2018.07)

Citation (search report)

See references of WO 2005094492A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

WO 2005094492 A2 20051013; WO 2005094492 A3 20090409; CN 101421049 A 20090429; EP 1761339 A2 20070314; JP 2007527831 A 20071004

DOCDB simple family (application)

US 2005009693 W 20050324; CN 200580007625 A 20050324; EP 05731014 A 20050324; JP 2007503115 A 20050324