Title (en)

FOAM PUMP ACTUATOR WITH FOLDING NOZZLE SUITABLE FOR E-COMMERCE

Title (de)

SCHAUMPUMPENBETÄTIGER MIT FALTDÜSE FÜR ELEKTRONISCHEN HANDEL

Title (fr)

ACTIONNEUR DE POMPE À MOUSSE AVEC BUSE PLIANTE ADAPTÉE POUR L'E-COMMERCE

Publication

EP 3638086 A4 20200715 (EN)

Application

EP 18913642 A 20181009

Priority

- US 201815946436 A 20180405
- US 201816150147 A 20181002
- US 2018054935 W 20181009

Abstract (en)

[origin: WO2019194864A1] An actuator for a hand operated foam dispensing pump that utilizes a folding nozzle is presented. The folding nozzle of the actuator is configured so as to lock the actuator in place and prevent operation of the pump when the nozzle is folded. The actuator substantially reduces pump closure loosening (back-off) and nozzle breakage during shipping of a filled product by eliminating trigger handles or other conventional nozzle types which protrude from the side of the actuator. As such, the new actuator is particularly well-suited for use in e-commerce where the shipping of unboxed products is becoming increasingly common. The actuator is configured such that actuator depression (actuation) cannot occur when the folding nozzle is in a folded position.

IPC 8 full level

B05B 11/00 (2006.01); **A47K 5/16** (2006.01); **B65D 47/30** (2006.01)

CPC (source: EP)

A47K 5/16 (2013.01); **B05B 11/0094** (2013.01); **B05B 11/1059** (2023.01); **B65D 47/305** (2013.01); A47K 5/1205 (2013.01); B05B 7/0037 (2013.01); B05B 11/1047 (2023.01); B05B 11/1087 (2023.01)

Citation (search report)

- [XI] US 3907174 A 19750923 - STEIMAN WOLF
- [A] US 3874562 A 19750401 - HAZARD ROBERT E
- [A] US 2014239021 A1 20140828 - XUFENG TU [CN]
- [A] US 4819832 A 19890411 - LAWSON THOMAS J [GB]
- See also references of WO 2019194864A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2019194864 A1 20191010; CA 3070487 A1 20191010; CA 3070487 C 20240227; CN 111741703 A 20201002; CN 111741703 B 20211214; EP 3638086 A1 20200422; EP 3638086 A4 20200715; EP 3638086 B1 20221207

DOCDB simple family (application)

US 2018054935 W 20181009; CA 3070487 A 20181009; CN 201880089774 A 20181009; EP 18913642 A 20181009