

Title (en)

SWIVEL ATTACHMENT OF SUPPLY VESSELS TO APPLICATORS

Title (de)

DREHBEFESTIGUNG FÜR VERSORGUNGSBEHÄLTER FÜR APPLIKATOREN

Title (fr)

FIXATION PAR PIVOTEMENT DE RECIPIENTS D'ALIMENTATION A DES APPLICATEURS

Publication

EP 1558397 A4 20060913 (EN)

Application

EP 03809095 A 20031015

Priority

- US 0332904 W 20031015
- US 27223002 A 20021015
- US 60805803 A 20030627

Abstract (en)

[origin: WO2004035226A1] Apparatus and methods for swivel attachment of supply vessels to applicator devices are disclosed. In one embodiment, an apparatus includes an applicator device, a supply vessel having an interior volume, and a swivel assembly coupled between the supply vessel and the applicator device. The swivel assembly includes a first engagement member having a protruding portion and a first passageway disposed therethrough, and a second engagement member having a concavity and a second passageway disposed therethrough, the protruding portion being moveably engaged within the concavity such that the interior volume of the supply vessel fluidly communicates with the applicator device through the first and second passageways.

IPC 8 full level

B05B 7/24 (2006.01)

CPC (source: EP)

B05B 7/2413 (2013.01); **B05B 7/2478** (2013.01)

Citation (search report)

- [XY] DE 3627336 A1 19880218 - BIRENHEIDE ERHARD [DE]
- [X] US 4035004 A 19770712 - HENGESBACH ROBERT W
- [Y] US 5655848 A 19970812 - CATRON WILLARD E [US]
- See references of WO 2004035226A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 2004035226 A1 20040429; AU 2003301254 A1 20040504; CA 2502487 A1 20040429; EP 1558397 A1 20050803; EP 1558397 A4 20060913; EP 1558397 B1 20090304

DOCDB simple family (application)

US 0332904 W 20031015; AU 2003301254 A 20031015; CA 2502487 A 20031015; EP 03809095 A 20031015