

Title (en)

AIRTIGHT LID FOR CONTAINER AND METHOD OF USE

Title (de)

LUFTDICHTER DECKEL FÜR BEHÄLTER UND VERWENDUNGSVERFAHREN

Title (fr)

COUVERCLE HERMETIQUE DE RECIPIENT ET PROCEDE D'UTILISATION

Publication

EP 1778561 A2 20070502 (EN)

Application

EP 05779747 A 20050809

Priority

- US 2005028249 W 20050809
- US 91701604 A 20040812

Abstract (en)

[origin: US2006032852A1] A lid for forming an airtight seal to a bowl or dish plate to elongate the life of product therein comprises an impermeable membrane having an outer perimeter larger than the rim of the container and an enforcement ring for enabling the formation of an airtight seal between the membrane and rim of the container under vacuum. The membrane is sufficiently soft to cause it to fill the lower sections or imperfections on the rim, thus enabling the lid to form an airtight seal to almost all household containers. The membrane may be adapted to have sufficient low tensile stress, thereby preventing the vacuum in the container from imploding or collapsing the container even if it has a thin or weak wall. The enforcement ring has vertical and horizontal rings connected to the membrane perimeter to prevent the membrane deformation at both vertical and horizontal directions. The lid may further comprise an air evacuation passageway having an air collection chamber for extracting air from the container and a valve for allowing air to flow out of the container but preventing air from entering. In use, the lid may be sealed to a container by simply pushing the membrane into the container and releasing the membrane to generate a vacuum to affix the membrane to the container, or may be sealed to a container by connecting a vacuum generator to the evacuation passageway to evacuate the container.

IPC 8 full level

B65D 51/16 (2006.01); **B65D 51/00** (2006.01)

CPC (source: EP US)

B65D 51/1683 (2013.01 - EP US); **B65D 81/2015** (2013.01 - EP US); **B65D 81/2038** (2013.01 - EP US)

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 LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

US 2006032852 A1 20060216; CN 101432201 A 20090513; CN 101432201 B 20120926; EP 1778561 A2 20070502; EP 1778561 A4 20081203; JP 2008509855 A 20080403; JP 4881303 B2 20120222; WO 2006020628 A2 20060223; WO 2006020628 A3 20081009

DOCDB simple family (application)

US 91701604 A 20040812; CN 200580027413 A 20050809; EP 05779747 A 20050809; JP 2007525733 A 20050809; US 2005028249 W 20050809