

Title (en)  
Insert for a drum closure

Title (de)  
Einsatz für einen Trommelverschluss

Title (fr)  
Insert pour une fermeture de tambour

Publication  
**EP 2772449 A1 20140903 (EN)**

Application  
**EP 13157302 A 20130228**

Priority  
EP 13157302 A 20130228

Abstract (en)  
The present invention is related to an Insert (10) for a drum closure and comprising a flange (1) and a cylindrical collar (2), said collar comprising a lower sleeve portion (3) for inserting a plug (4), and an upper lip portion (5) to be beaded about an edge (12) of a cylindrical neck (11) surrounding a drum opening (13), said flange (1) extending radially outward from a lower end of said sleeve portion (3), characterized in that an upper surface (6) of said flange adjacent said collar (2) comprises a circumferentially extending depression (7).

IPC 8 full level  
**B65D 39/08** (2006.01)

CPC (source: EP)  
**B65D 39/084** (2013.01)

Citation (applicant)  
• EP 0614434 B1 19951102 - LEER KONINKLIJKE EMBALLAGE [NL]  
• US 4706836 A 19871117 - GRECK EUGENE [US]  
• EP 0614434 A1 19940914 - LEER KONINKLIJKE EMBALLAGE [NL]

Citation (search report)  
• [X] WO 03062079 A1 20030731 - SARAF SUDARSHAN MADHOPRASAD [IN]  
• [A] US 3946894 A 19760330 - SIMKUS VYTO  
• [A] WO 9310986 A1 19930610 - LEER KONINKLIJKE EMBALLAGE [NL]

Citation (third parties)  
Third party :  
• US 2005269335 A1 20051208 - SARAF SUDARSHAN M [IN]  
• US 4677730 A 19870707 - MINEO MASANARI [JP], et al  
• "PACKAGING - STEEL DRUMS - PART 3: INSERTED FLANGE-TYPE CLOSURE SYSTEMS", BRITISH STANDARD - BS ISO 15750-3:2002, 11 June 2002 (2002-06-11), pages 3PP, I - IV, 1 - 43, 1PP, XP003034066

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)  
**EP 2772449 A1 20140903**; CN 104015971 A 20140903

DOCDB simple family (application)  
**EP 13157302 A 20130228**; CN 201410067643 A 20140226