

Title (en)  
CLOSURE OF VESSEL

Title (de)  
GEFÄSSVERSCHLUSS

Title (fr)  
ÉLÉMENT DE FERMETURE DE RÉCIPIENT

Publication  
**EP 2222571 A4 20101124 (EN)**

Application  
**EP 08843090 A 20081024**

Priority  
• KR 2008006298 W 20081024  
• KR 20070107428 A 20071024

Abstract (en)  
[origin: WO2009054698A2] Disclosed is a closure of a vessel that is prevented from being arbitrarily opened. The closure of a vessel comprises: an inner closure mounted to a vessel inlet of a vessel; an outer closure disposed on an outer circumferential surface of the inner closure so as to perform an idle rotation with respect to the inner closure; a rotation force transmitting portion formed between the inner closure and the outer closure for transmitting a rotation force of the outer closure in an opening direction to the inner closure only when the outer closure is downwardly pressed by force more than a predetermined force; and a protection plate supported by a spacer that maintains a gap between the inner closure and the outer closure by being disposed therebetween, and detachably installed to the outer closure with constituting a part of an upper surface of the outer closure, for allowing the outer closure to perform only an idle rotation with respect to the inner closure in an opening direction, and for transmitting a rotation force of the outer closure to the inner closure when the protection plate is detached from the outer closure and the outer closure is downwardly moved by a force more than a predetermined force from the rotation force transmitting portion.

IPC 8 full level  
**B65D 50/04** (2006.01); **B65D 51/22** (2006.01)

CPC (source: EP KR US)  
**B65D 41/32** (2013.01 - KR); **B65D 50/04** (2013.01 - KR); **B65D 50/041** (2013.01 - EP US); **B65D 51/227** (2013.01 - EP US); **B65D 51/228** (2013.01 - EP US); **B65D 2215/02** (2013.01 - EP US); **B65D 2251/0015** (2013.01 - EP US); **B65D 2251/0046** (2013.01 - EP US); **B65D 2251/0059** (2013.01 - EP US); **B65D 2251/0093** (2013.01 - EP US); **B65D 2401/15** (2020.05 - EP US)

Citation (search report)  
• [XA] US 5785194 A 19980728 - OGDEN BRIAN L [GB]  
• [XAY] US 5005718 A 19910409 - BUONO CAETANO [US]  
• [YA] WO 2006098559 A1 20060921 - RHO HEE KWON [KR]  
• [AP] WO 2008002079 A1 20080103 - RHO HEE KWON [KR]  
• See references of WO 2009054698A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**WO 2009054698 A2 20090430**; **WO 2009054698 A3 20090528**; AU 2008317629 A1 20090430; BR PI0818204 A2 20160614; CA 2703654 A1 20090430; CN 101888954 A 20101117; CN 101888954 B 20120111; EP 2222571 A2 20100901; EP 2222571 A4 20101124; JP 2011500472 A 20110106; KR 20090042182 A 20090429; MX 2010004459 A 20101007; RU 2010120665 A 20111127; US 2010237072 A1 20100923

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**KR 2008006298 W 20081024**; AU 2008317629 A 20081024; BR PI0818204 A 20081024; CA 2703654 A 20081024; CN 200880119466 A 20081024; EP 08843090 A 20081024; JP 2010530934 A 20081024; KR 20080104661 A 20081024; MX 2010004459 A 20081024; RU 2010120665 A 20081024; US 73958308 A 20081024