

Title (en)

Sealing body for closing an opening in a water vehicle

Title (de)

Verschlusskörper zum Verschliessen einer Öffnung eines Wasserfahrzeuges

Title (fr)

Corps de fermeture destiné à la fermeture d'une ouverture d'un véhicule marin

Publication

EP 2394906 A3 20150729 (DE)

Application

EP 11003482 A 20110428

Priority

DE 102010023265 A 20100609

Abstract (en)

[origin: EP2394906A2] The closure body (12) is formed by a fiber composite material, where the fibers (18) are aligned unidirectionally in the direction of the outer periphery in an outer edge area (14) of the closure body. Other fibers (26,28,30) are crosswise aligned in the inner area (16). An independent claim is also included for a submarine with an inner space.

IPC 8 full level

B63B 19/08 (2006.01); **B29C 70/20** (2006.01); **B63G 8/00** (2006.01)

CPC (source: EP KR)

B63B 19/08 (2013.01 - EP); **B63G 8/00** (2013.01 - EP KR)

Citation (search report)

- [XJ] DE 19739291 C1 19980806 - DEUTSCH ZENTR LUFT & RAUMFAHRT [DE]
- [XAI] US 2005042410 A1 20050224 - SAKONJO HIDEKI [JP], et al
- [X] DE 102004025378 A1 20051222 - AIRBUS GMBH [DE]
- [AD] US 7213528 B1 20070508 - PENDERGRAPH DAVID E [US]

Cited by

CN110884613A; WO2017072205A1

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 2394906 A2 20111214; EP 2394906 A3 20150729; EP 2394906 B1 20180613; DE 102010023265 A1 20111215; ES 2683358 T3 20180926; KR 101572252 B1 20151126; KR 20140095595 A 20140804

DOCDB simple family (application)

EP 11003482 A 20110428; DE 102010023265 A 20100609; ES 11003482 T 20110428; KR 20110049140 A 20110524