

Title (en)

IMPACT ABSORBER AND PACKAGING MATERIAL

Title (de)

STOSSDÄMPFER UND VERPACKUNGSMATERIAL

Title (fr)

AMORTISSEUR DE CHOCS ET MATÉRIAU D'EMBALLAGE

Publication

EP 4049943 A3 20220928 (EN)

Application

EP 22157214 A 20220217

Priority

- JP 2021029005 A 20210225
- JP 2021029026 A 20210225

Abstract (en)

An impact absorber (1, 1a, 1x, 2) includes a three-dimensional structure. The three-dimensional structure includes a closed top surface, an open bottom, a hollow inside, and a recess (11, 1lx, 21). The recess is disposed within an outline of the top surface.

IPC 8 full level

B65D 81/113 (2006.01)

CPC (source: CN EP US)

B65D 5/32 (2013.01 - US); **B65D 5/445** (2013.01 - US); **B65D 81/022** (2013.01 - US); **B65D 81/05** (2013.01 - CN US); **B65D 81/113** (2013.01 - EP)

Citation (search report)

- [X] WO 2015052802 A1 20150416 - MITSUBISHI ELECTRIC CORP [JP]
- [XI] JP S5989882 U 19840618
- [X] EP 0485289 A1 19920513 - PASCAL CHRISTIAN [FR]
- [X] US 5226543 A 19930713 - FOOS DOUGLAS E [US], et al
- [XI] US 6361659 B1 20020326 - YANG CHUN-TSE [TW]
- [X] US 2012103854 A1 20120503 - OOI WAI KEK [MY], et al

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 4049943 A2 20220831; **EP 4049943 A3 20220928**; CN 114955246 A 20220830; US 2022267046 A1 20220825

DOCDB simple family (application)

EP 22157214 A 20220217; CN 202210076370 A 20220121; US 202217676182 A 20220220