

Title (en)  
SHOCK ABSORBER AND PACKAGING SYSTEM

Title (de)  
STOSSDÄMPFER UND VERPACKUNGSSYSTEM

Title (fr)  
AMORTISSEUR ET SYSTÈME D'EMBALLAGE

Publication  
**EP 4116221 A1 20230111 (EN)**

Application  
**EP 22182785 A 20220704**

Priority  
JP 2021113477 A 20210708

Abstract (en)  
A shock absorber (1) includes a base structure (10) and a shock-absorbing rib structure (20). The shock-absorbing rib structure (20) is disposed on a face of the base structure (10). The shock-absorbing rib structure (20) includes a main buffer (12) and an auxiliary buffer (14). The main buffer (12) is supported by the base structure (10) and has a cubic or rectangular parallelepiped shape. The auxiliary buffer (14) is supported by the base structure (10) at opposed ends of the auxiliary buffer (14) and apart from the base structure (10) between the opposed ends of the auxiliary buffer (14).

IPC 8 full level  
**B65D 81/107** (2006.01); **B65D 81/127** (2006.01)

CPC (source: EP US)  
**B65D 81/107** (2013.01 - EP); **B65D 81/113** (2013.01 - US); **B65D 81/127** (2013.01 - EP)

Citation (applicant)  
JP H09328172 A 19971222 - TOSHIBA VIDEO PROD JAPAN KK

Citation (search report)  
• [A] US 4709817 A 19871201 - KEADY PETER [US], et al  
• [A] EP 0454953 A2 19911106 - HEWLETT PACKARD CO [US]  
• [A] US 2012241351 A1 20120927 - TSUKII KATSUMI [JP]  
• [A] JP 2015081098 A 20150427 - KYOCERA DOCUMENT SOLUTIONS INC  
• [A] US 2005178690 A1 20050818 - SOTTO RYAN [US]

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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4116221 A1 20230111**; **EP 4116221 B1 20240221**; JP 2023009855 A 20230120; US 2023020334 A1 20230119

DOCDB simple family (application)  
**EP 22182785 A 20220704**; JP 2021113477 A 20210708; US 202217847318 A 20220623