

Title (en)  
MEMBRANE PACKING.

Title (de)  
MEMBRANVERPACKUNG.

Title (fr)  
EMBALLAGE A MEMBRANES.

Publication  
**EP 0403514 B1 19940112 (EN)**

Application  
**EP 89902913 A 19890221**

Priority  
• US 16221588 A 19880229  
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• US 29305989 A 19890103

Abstract (en)  
[origin: WO8908064A1] An improved packing device which holds an article being shipped between membranes. The membranes provide shock adsorption through their own resiliency and by allowing motion when forces in excess of the frictional limit are applied. A pair of rigid frames (3) and (9) having central openings covered by an attached pliable material (7), form spacers which are forced in intimate contact with a fragile article (6) within its shipping container (2) to absorb shocks, flexion and torsion of the container due to shipping and handling loads. The spacers can be a box-like structure with at least one open face covered with a flexible membrane. The contour of the other faces of the structure are shaped and dimensioned to match the internal geometry of the container. In some applications, the spacer structure is a wedge that fits in one corner of the container. Two to four such wedges are typically used to support the object. The framed membranes offer a versatile substitute for a variety of common packing inserts.

IPC 1-7  
**B65D 85/30**; **B65D 81/10**

IPC 8 full level  
**B65D 85/30** (2006.01); **B65D 81/07** (2006.01)

CPC (source: EP)  
**B65D 81/075** (2013.01)

Cited by  
DE102004047052B3; US10252135B1; WO0053499A2; WO2015152950A1; US9126743B2; US9150343B2; EP1035019A1; EP2241516A1; US11938372B1

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