

Title (en)  
VARIABLE-VOLUME INSULATED SHIPPING CONTAINER

Title (de)  
ISOLIERTER VERSANDBEHÄLTER MIT VARIABLEM VOLUMEN

Title (fr)  
CONTENEUR D EXPÉDITION ISOLÉ À VOLUME VARIABLE

Publication  
**EP 1922264 A4 20090506 (EN)**

Application  
**EP 05795370 A 20050907**

Priority  
US 2005031816 W 20050907

Abstract (en)  
[origin: WO2007030110A1] A variable-volume shipping container (10) has both cushioning and insulating characteristics, so that it may be used to ship items which are fragile, or items which require refrigeration, or both. The container (10) includes an expansible volume-varying element (20) which expands in thickness while maintaining its plan-view shape after the container is closed and secured, so that fragile items are held snugly, or so that items needing refrigeration are held in good heat transfer relation to a refrigerant, such as dry ice (38), placed into the container along with the items to be shipped. Methods of making expansible volume-varying elements of various configurations and having a differing number of expansible elements are disclosed.

IPC 8 full level  
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Citation (search report)

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- [X] US 5676509 A 19971014 - ENZU MASAO [JP]
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- [X] FR 1529671 A 19680621
- [YA] US 3730240 A 19730501 - PRESNICK M
- See references of WO 2007030110A1

Designated contracting state (EPC)  
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**WO 2007030110 A1 20070315**; AU 2005336114 A1 20070315; EP 1922264 A1 20080521; EP 1922264 A4 20090506

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