

Title (en)  
Palletless packaging unit

Title (de)  
Palettenlose Verpackungseinheit

Title (fr)  
Unité d'emballage sans palette

Publication  
**EP 2248722 B1 20130123 (DE)**

Application  
**EP 10004752 A 20100505**

Priority  
DE 102009020454 A 20090508

Abstract (en)  
[origin: EP2248722A1] The packing unit (17) consists of a cube of stacked articles, on top of which is a smaller layer (4), leaving gaps (7) at each side for inserting the fork of a fork-lift truck. Two retaining layers (8, 9) of plastic sheet are fitted at right angles over the top of the stack. It is then wrapped with two outer sleeves (14, 16) of sheet. An independent claim is included for a machine for producing the unit.

IPC 8 full level  
**B65B 9/13** (2006.01); **B65D 71/00** (2006.01)

CPC (source: EP)  
**B65B 9/135** (2013.01); **B65D 71/0088** (2013.01); **B65B 11/585** (2013.01); **B65D 2571/00012** (2013.01); **B65D 2571/00061** (2013.01); **B65D 2571/00092** (2013.01)

Cited by  
CN114585564A; US11345496B2; WO2021081158A1; EP3312099A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)  
**DE 202009008434 U1 20090903**; DE 102009020454 B3 20101028; DK 2248722 T3 20130415; EP 2248722 A1 20101110; EP 2248722 B1 20130123

DOCDB simple family (application)  
**DE 202009008434 U 20090618**; DE 102009020454 A 20090508; DK 10004752 T 20100505; EP 10004752 A 20100505