

Title (en)
PROCESS FOR ASSEMBLY OF CORRUGATED PALLET

Title (de)
VERFAHREN ZUR ANORDNUNG GEWELLTER PALETTEN

Title (fr)
PROCÉDÉ POUR L'ASSEMBLAGE DE PALETTES ONDULÉES

Publication
EP 3096944 A1 20161130 (EN)

Application
EP 15737468 A 20150120

Priority
• US 201461929454 P 20140120
• US 201414120694 A 20140616
• US 2015000013 W 20150120

Abstract (en)
[origin: WO2015108707A1] A process for assembling a corrugated pallet having of two die cut corrugated paperboard blanks that form a pallet top and a pallet bottom, with each having at least one vertically extending double thickness rib, each rib having at least one notch, wherein said notches lock the opposing ribs from opening when the pallet top and pallet bottom are vertically nested together. In performance of the process a mix of machine and human performed operations is used. The machine forms the rib on each blank blank by applying in-plane pressure to the blank through protruding elements on the machine that engage the blank and move in relation towards each other, and the machine maintains the in-plane pressure to keep the rib from opening until a time after the pallet top and bottom are nested together. The machine uses rib folding plates that apply out-of-plane forces to the blanks to assist forming of the ribs by rotating in the out-of-plane direction when the in-plane compression is applied. Human operators load the blanks into the machine and form the sidewalls and fork openings.

IPC 8 full level
B31B 17/26 (2006.01); **B31D 5/04** (2006.01); **B65D 19/06** (2006.01)

CPC (source: EP KR US)
B31D 5/00 (2013.01 - EP); **B31D 5/04** (2013.01 - EP KR US); **B65D 19/0012** (2013.01 - EP KR); **B65D 2519/00019** (2013.01 - EP KR); **B65D 2519/00054** (2013.01 - EP KR); **B65D 2519/00273** (2013.01 - EP KR); **B65D 2519/00288** (2013.01 - EP KR); **B65D 2519/00318** (2013.01 - EP KR); **B65D 2519/00343** (2013.01 - EP KR); **B65D 2519/00567** (2013.01 - EP KR)

Citation (search report)
See references of WO 2015108707A1

Cited by
CN106626519A

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)
WO 2015108707 A1 20150723; BR 112016016814 A2 20170926; CA 2937533 A1 20150723; EP 3096944 A1 20161130; JP 2017504506 A 20170209; KR 20160144961 A 20161219; MX 2016009457 A 20170425

DOCDB simple family (application)
US 2015000013 W 20150120; BR 112016016814 A 20150120; CA 2937533 A 20150120; EP 15737468 A 20150120; JP 2016547055 A 20150120; KR 20167022268 A 20150120; MX 2016009457 A 20150120