

Title (en)
Support structure for a pallet.

Title (de)
Tragstruktur für eine Palette.

Title (fr)
Structure de support pour palette.

Publication
EP 0595612 A1 19940504 (EN)

Application
EP 93308553 A 19931027

Priority
GB 9222634 A 19921028

Abstract (en)
Composite support structures are disclosed comprising slabs of foam (5, 6) substantially encased in skins (7) of hollow structured sheet. A number of support structures (1, 2, 3, 4) may be combined in a lightweight modular pallet for use in the transportation or storage of goods. Each support structure of the pallet may have only a single row of legs (20), the legs being held in place and the pallet being strengthened by internal bracing members (15). The bracing members alone may be used to join the support structures (1, 2, 3, 4) to each other, but one method for producing the pallet also includes a sequence for ultrasonic welding of the skins (7) of the respective support structures to each other. Ultrasonic welding may also be used to fix other parts of the pallet together, for example, slide members (25) fixed between the ends of legs (20) of different rows. A variety of constructions and methods of assembly relating to the bracing members (15) and slide members (25) is described. <IMAGE>

IPC 1-7
B65D 19/26

IPC 8 full level
B65D 19/00 (2006.01)

CPC (source: EP)
B65D 19/0073 (2013.01); **B65D 2519/00034** (2013.01); **B65D 2519/00069** (2013.01); **B65D 2519/00104** (2013.01); **B65D 2519/00293** (2013.01); **B65D 2519/00323** (2013.01); **B65D 2519/00333** (2013.01); **B65D 2519/00373** (2013.01); **B65D 2519/00557** (2013.01); **B65D 2519/00562** (2013.01); **B65D 2519/00567** (2013.01)

Citation (search report)
• [A] CH 466538 A 19681215 - WERNER ACHERMANN & FRANZ ACHER [CH]
• [A] US 3952672 A 19760427 - GORDON ROBERT LEWIS, et al
• [A] DE 2747422 A1 19790426 - ZEAWELL AG & CO KG
• [A] US 2536587 A 19510102 - WHALLEY GEORGE E
• [A] WO 9212061 A1 19920723 - WHEELLOCK E THOMAS [US], et al
• [A] WO 8601786 A1 19860327 - ATTERBY FRED, et al
• [A] "LOW-COST PLASTIC PALLET", MODERN PACKAGING, vol. 48, January 1975 (1975-01-01), pages 57

Cited by
EP3621889A4; EP3390240A4; CN111619929A; WO9619386A1

Designated contracting state (EPC)
BE DE DK FR NL SE

DOCDB simple family (publication)
GB 2271981 A 19940504; **GB 2271981 B 19960807**; **GB 9322121 D0 19931215**; EP 0595612 A1 19940504; GB 9222634 D0 19921209

DOCDB simple family (application)
GB 9322121 A 19931027; EP 93308553 A 19931027; GB 9222634 A 19921028