

Title (en)

END WALL MADE FROM DEFORMABLE MATERIAL WITHOUT SHARINGS FOR USE WITH A CORE OF ROLLED MATERIAL

Publication

EP 0535481 A3 19931215 (DE)

Application

EP 92116077 A 19920919

Priority

DE 4132442 A 19910928

Abstract (en)

[origin: EP0535481A2] An end wall 1 consists of a panel 11 which forms a smooth flat surface on the front while the back is reinforced by radial ribs 5 and annular ribs 14. The radial ribs 5 are reinforced by webs 32 which run perpendicular to the panel 11. Further webs 33 reinforce rounded webs 17 of retaining cams 4. There is a central insertion pin on the front of the panel 11. Three side walls 13 of the panel 11 are provided with stacking cams 9, 19 which bound stacking pockets 8, 18 which are constructed to be complementary to the stacking cams. The fourth side wall 30 of the end wall has a grooving 31 and rests on a pallet when a material wound on a core is packaged with the end walls. When the end walls 1 are stacked laterally together and/or vertically one above the other aligned perpendicularly, the stacking cams and stacking pockets of one side wall can be joined together without gaps with the complementary stacking pockets and stacking cams of the side wall of a further end wall 1. Corner surfaces 15 of the end wall 1 are rounded and provided with the cylindrical retaining cams 4 which have the same radius as the rounded corner surfaces.

IPC 1-7

B65D 85/672; **B65D 71/00**; **B65H 75/14**

IPC 8 full level

B65D 71/00 (2006.01); **B65D 85/672** (2006.01); **B65H 75/14** (2006.01); **B65D 71/02** (2006.01)

CPC (source: EP US)

B65D 71/0096 (2013.01 - EP US); **B65D 85/672** (2013.01 - EP US); **B65D 2571/00111** (2013.01 - EP US)

Citation (search report)

- [AD] EP 0332186 A2 19890913 - HOECHST AG
- [A] FR 2231136 A1 19741220 - BASQUIN ET CIE NESTOR [FR]
- [A] EP 0447737 A1 19910925 - ESO PLAST SRL [IT]

Cited by

EP0753469A3

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EP 0535481 A2 19930407; **EP 0535481 A3 19931215**; **EP 0535481 B1 19961204**; AT E145879 T1 19961215; DE 4132442 A1 19930401; DE 59207616 D1 19970116; DK 0535481 T3 19970414; ES 2095379 T3 19970216; GR 3021907 T3 19970331; JP H0624482 A 19940201; JP H0737278 B2 19950426; US 5344013 A 19940906

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