

Title (en)
DEVICE FOR PACKAGING A STACK OF GOODS PUT ON A PALLET

Publication
EP 0376028 B1 19930210 (DE)

Application
EP 89122755 A 19891209

Priority
DE 8816085 U 19881224

Abstract (en)
[origin: US5042235A] Goods are packaged by first placing a thermoplastic lower foil atop a pallet with edges of the foil projecting laterally past the pallet and then stacking goods on the pallet atop the foil on the pallet within the edges of the foil. The lower edge of a downwardly open heat-shrinkable foil hood is held as the hood is fitted downward over the stack on the pallet until the lower edge is generally below the stack. This lower edge is then gripped below the stack and the foil hood is shrunk from top to bottom around the stack while continuing to grip the lower edge below the stack. Finally the foil hood is welded to the outer edge of the lower foil. Thus when the grippers are carried on the same vertically displaceable frame as the heater/blowers it is possible for the grippers to release and move upward before the top-to-bottom shrinking of the hood. During such shrinking the clamps will prevent the hood or sack from riding up too much.

IPC 1-7
B65B 53/02

IPC 8 full level
B65B 53/02 (2006.01)

CPC (source: EP US)
B65B 53/02 (2013.01 - EP US)

Cited by
EP0657356A1; EP1445197A1; FR2850949A1; EP1207109A1; FR2816587A1

Designated contracting state (EPC)
AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)
US 5042235 A 19910827; AT E85572 T1 19930215; DE 58903534 D1 19930325; DE 8816085 U1 19890309; DK 168816 B1 19940620; DK 646189 A 19900625; DK 646189 D0 19891219; EP 0376028 A1 19900704; EP 0376028 B1 19930210; ES 2038394 T3 19930716

DOCDB simple family (application)
US 45477489 A 19891221; AT 89122755 T 19891209; DE 58903534 T 19891209; DE 8816085 U 19881224; DK 646189 A 19891219; EP 89122755 A 19891209; ES 89122755 T 19891209