

Title (en)  
METHOD FOR PALLETIZING BOTTLES WITH INTERLEAVING OF LAYERS

Title (de)  
VERFAHREN ZUM PALETTIEREN VON FLASCHEN MIT INEINANDERSCHACHTELUNG VON SCHICHTEN

Title (fr)  
PROCÉDÉ DE PALETTISATION DE BOUTEILLES AVEC IMBRICATION DES COUCHES

Publication  
**EP 1802543 A1 20070704 (FR)**

Application  
**EP 05809189 A 20051019**

Priority  
• FR 2005002587 W 20051019  
• FR 0411135 A 20041020

Abstract (en)  
[origin: WO2006042962A1] The invention concerns a palletizing method which consists in: preparing a template (11) capable of receiving a batch of bottles (2) and of positioning the different bottles of said batch according to a distribution scheme adapted to the bottle to be palletized; picking a batch of bottles at said loading station (1), where the bottles are arranged in close succession, organized in a square, by means of a maneuvering tool (5) comprising pneumatic gripping bell-shaped heads (3) whereof the inside diameter is considerably larger than of the necks (19) of said bottles on said template (11); deactivating said gripping heads (2) to release the bottles which are automatically wedged on the template (11) and to be able to release said maneuvering tool; pressing an inter-layer sheet (15) on the necks (16) of the bottles wedged on said template (11); repositioning the maneuvering tool (5) on said wedged bottles and reactivating said gripping heads (3); removing with the maneuvering tool (5) the batch of bottles recently wedged with its inter-layer sheet (15) for transferring and setting the whole assembly onto one pallet (27) or another; then starting over again said process by picking another batch of bottles to set in onto said template (11), fitting in an inter-layer sheet (15) then picking up again said batch and setting it on the inter-layer sheet (14) of the first layer and so on until the expected number of layers is obtained.

IPC 8 full level  
**B65G 57/24** (2006.01)

CPC (source: EP US)  
**B65B 35/52** (2013.01 - EP US); **B65G 47/908** (2013.01 - EP US); **B65G 47/91** (2013.01 - EP US); **B65G 47/918** (2013.01 - EP US); **B65G 57/005** (2013.01 - EP US); **B65G 2201/0247** (2013.01 - EP US)

Citation (search report)  
See references of WO 2006042962A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**FR 2876661 A1 20060421**; **FR 2876661 B1 20080718**; CN 101044075 A 20070926; EP 1802543 A1 20070704; JP 2008516870 A 20080522; MX 2007004819 A 20070615; US 2008118340 A1 20080522; WO 2006042962 A1 20060427

DOCDB simple family (application)  
**FR 0411135 A 20041020**; CN 200580035944 A 20051019; EP 05809189 A 20051019; FR 2005002587 W 20051019; JP 2007537331 A 20051019; MX 2007004819 A 20051019; US 66580405 A 20051019