

Title (en)  
APPARATUS FOR THE HEAT TREATMENT OF PACKS

Title (de)  
VORRICHTUNG ZUR WÄRMEBEHANDLUNG VON PACKUNGEN

Title (fr)  
DISPOSITIF DE TRAITEMENT THERMIQUE DE PAQUETS

Publication  
**EP 1928748 B1 20101006 (DE)**

Application  
**EP 06791579 A 20060816**

Priority  
• EP 2006008059 W 20060816  
• DE 102005046304 A 20050927

Abstract (en)  
[origin: US2008250757A1] For the heat treatment of cigarette packs ( 10 ) having an outer wrapper made of shrink film, the packs ( 10 ) can be conveyed in pairs, one above the other, through a shrink-fitting subassembly ( 20 ). During a standstill phase, heating plates ( 22, 23, 24 ) butt against upwardly and downwardly oriented pack surfaces in order to transmit heat. The heating plates ( 22, 24 ) can be moved upward and downward in order that the pack ( 10 ) is free of loading during the conveying cycle.

IPC 8 full level  
**B65B 53/02** (2006.01); **B65B 19/22** (2006.01)

CPC (source: EP US)  
**B65B 19/22** (2013.01 - EP US); **B65B 53/02** (2013.01 - EP US)

Citation (examination)  
• US 2037631 A 19360414 - HULTIN OSCAR H  
• US 3166462 A 19650119 - JOSEF SCHODER EDUARD  
• EP 1574435 A2 20050914 - HAUNI MASCHINENBAU AG [DE]

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)  
**US 2008250757 A1 20081016; US 7784253 B2 20100831**; AT E483638 T1 20101015; BR PI0616354 A2 20110614; CN 101272959 A 20080924; CN 101272959 B 20110511; DE 102005046304 A1 20070329; DE 502006008041 D1 20101118; EP 1928748 A1 20080611; EP 1928748 B1 20101006; JP 2009509872 A 20090312; JP 5161780 B2 20130313; PL 1928748 T3 20110331; WO 2007036262 A1 20070405

DOCDB simple family (application)  
**US 6642706 A 20060716**; AT 06791579 T 20060816; BR PI0616354 A 20060816; CN 200680035824 A 20060816; DE 102005046304 A 20050927; DE 502006008041 T 20060816; EP 06791579 A 20060816; EP 2006008059 W 20060816; JP 2008531552 A 20060816; PL 06791579 T 20060816