

Title (en)  
Apparatus for shingling letters

Title (de)  
Vorrichtung zur Vereinzelung von Briefen

Title (fr)  
Dispositif pour séparer des lettres

Publication  
**EP 1547948 B2 20121114 (DE)**

Application  
**EP 04029756 A 20041216**

Priority  
• DE 10361175 A 20031223  
• DE 102004029712 A 20040621

Abstract (en)  
[origin: EP1547948A1] The method for the processing of a flat product (1) comprising a number of individual flat pieces, especially letters, entails conveying the pieces in a row and with one edge lying against a conveyor belt. The individual pieces lie one upon the other in an overlapping fashion and the whole product by a flat side is then guided against a braking device (6), whereby an individual piece lying against the braking device is braked in relation to the transporting speed of the conveyor belt. The product is then gripped on the other flat side by especially a side belt (12). An independent claim is included for a device for the processing of a flat product, especially letters.

IPC 8 full level  
**B65H 5/02** (2006.01); **B65H 5/24** (2006.01); **B65H 29/68** (2006.01)

CPC (source: EP US)  
**B65H 5/023** (2013.01 - EP US); **B65H 5/026** (2013.01 - EP US); **B65H 5/24** (2013.01 - EP US); **B65H 29/68** (2013.01 - EP US); **B65H 2301/321** (2013.01 - EP US); **B65H 2301/44514** (2013.01 - EP US); **B65H 2701/1916** (2013.01 - EP US)

Citation (opposition)  
Opponent :  
• US 2941653 A 19600621 - KRIEMELMEYER JR HARRY  
• DE 10212024 A1 20031016 - INTERROLL HOLDING AG S ANTONIN [CH]  
• US 4691913 A 19870908 - FRANK WERNER [DE]

Cited by  
DE102010027107A1; EP1953104A1; US7744079B2

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 MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1547948 A1 20050629; EP 1547948 B1 20090923; EP 1547948 B2 20121114**; US 2005146089 A1 20050707; US 7735827 B2 20100615

DOCDB simple family (application)  
**EP 04029756 A 20041216**; US 1967604 A 20041223