

Title (en)  
DEVICE FOR ORIENTING SECURITY PAPERS

Title (de)  
VORRICHTUNG ZUM AUSRICHTEN VON WERTSCHEINEN

Title (fr)  
DISPOSITIF POUR ORIENTER DES DOCUMENTS DE VALEUR

Publication  
**EP 2334581 A1 20110622 (DE)**

Application  
**EP 09744987 A 20091005**

Priority  
• EP 2009062886 W 20091005  
• DE 102008050524 A 20081006

Abstract (en)  
[origin: WO2010040706A1] The invention relates to a device for orienting at least one security paper (12 to 18). The device has first and second transport elements (24 to 52, 224 to 252) for transporting the security paper (12 to 18) on a transport plane (10) of a transport section. At least one rotating transport element (38 to 52, 238 to 252) generates a driving force that is exerted on the security paper (12 to 18) obliquely to the central axis (10) lying on the transport plane (10). At least one second rotating transport element (24 to 36, 224 to 296) generates a driving force that is exerted on the security paper (12 to 18) parallel to the central axis (20). At least one first drive unit (304, 306, 313 to 322b) moves the first rotating transport element (38 to 52, 238 to 252) at least towards the transport plane (10). At least one second drive unit (304, 306, 313 to 322) moves the second rotating transport element (24 to 36) at least towards the transport plane (10). The device further comprises a contact unit (278a, 278b), which exerts a contact pressure on the security paper (12 to 18) in a contact position.

IPC 8 full level  
**B65H 9/00** (2006.01); **B65H 9/10** (2006.01)

CPC (source: EP US)  
**B65H 9/002** (2013.01 - EP US); **B65H 9/103** (2013.01 - EP US); **B65H 2404/1442** (2013.01 - EP US); **B65H 2404/64** (2013.01 - EP US); **B65H 2701/1912** (2013.01 - EP US)

Citation (search report)  
See references of WO 2010040706A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
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**DE 102008050524 A 20081006**; CN 200980139463 A 20091005; EP 09744987 A 20091005; EP 2009062886 W 20091005; ES 09744987 T 20091005; US 60781109 A 20091028