

Title (en)  
TURNING DEVICE FOR GOODS IN SHEET FORM AND METHOD OF OPERATING SAME

Publication  
**EP 0377786 B1 19930728 (DE)**

Application  
**EP 89116238 A 19890902**

Priority  
CH 5789 A 19890109

Abstract (en)  
[origin: US4993556A] A turning device which receives randomly oriented sheet-like items, such as bank notes, and delivers them in a predetermined orientation comprises a testing station which determines the initial orientation of the items, a control device which receives signals emitted by the testing station indicative of the initial orientation, and a conveying system which is responsive to the control device for re-orienting the items. The turning device includes a service station having a conveying path therein. The service station is rotatable about an axis of rotation into first and second rest positions which are separated by 180 DEG by arc. The conveying path of the service station is operable in forward and reverse directions. The conveying path of the service station also includes two openings through which it receives the items and discharges them after they have been reoriented. Depending on the initial orientation of the items, the control device delivers the items to the conveying path of the service station through one of the two openings, instructs the conveying path whether to rotate about its axis, and instructs the conveying path whether to continue operating in the forward direction or to reverse directions. Thereby, the control device enables the turning device to receive randomly oriented items through an input and to deliver them to an output according to a predetermined orientation. A sorting mechanism can be connected to the output of the turning device so that the sheet-like items can be stacked in separate compartments according to the predetermined orientation.

IPC 1-7  
**B65H 15/00**

IPC 8 full level  
**B65H 15/00** (2006.01)

CPC (source: EP US)  
**B65H 15/008** (2020.08 - EP US); **B65H 2301/33212** (2013.01 - EP US); **B65H 2701/1912** (2013.01 - EP US)

Cited by  
EP2301870A3

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

DOCDB simple family (publication)  
**EP 0377786 A1 19900718**; **EP 0377786 B1 19930728**; AT E91998 T1 19930815; DE 58905053 D1 19930902; ES 2046412 T3 19940201; US 4993556 A 19910219

DOCDB simple family (application)  
**EP 89116238 A 19890902**; AT 89116238 T 19890902; DE 58905053 T 19890902; ES 89116238 T 19890902; US 44392789 A 19891130