

Title (en)  
Turning device

Title (de)  
Wendevorrichtung

Title (fr)  
Dispositif de retournement

Publication  
**EP 1332808 A3 20040331 (DE)**

Application  
**EP 03000567 A 20030113**

Priority  
DE 10202081 A 20020121

Abstract (en)  
[origin: EP1332808A2] The turning device (10) for rolls (20) of metal sheet has a table (18) on which to lay the load, which is at least partly bounded by side and/or rear barriers (22, 24). A drive shaft (16) is connected to the table. This shaft runs at an angle relative to the table and at 45-47degrees to the horizontal. its extended axis passes through the table.

IPC 1-7  
**B21C 47/24**; **B65G 7/08**

IPC 8 full level  
**B21C 47/24** (2006.01); **B65G 7/08** (2006.01)

CPC (source: EP)  
**B21C 47/24** (2013.01); **B21C 47/242** (2013.01)

Citation (search report)  
• [X] US 2758725 A 19560814 - COLLYER LEONARD C  
• [X] US 3016158 A 19620109 - HORTON EARL A  
• [A] US 4322198 A 19820330 - ZUBER BRETISLAV P  
• [A] EP 1036954 A2 20000920 - SUMITOMO HEAVY INDUSTRIES [JP]

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

DOCDB simple family (publication)  
**EP 1332808 A2 20030806**; **EP 1332808 A3 20040331**; **EP 1332808 B1 20050615**; AT E297820 T1 20050715; DE 10202081 A1 20030807; DE 50300643 D1 20050721; ES 2240858 T3 20051016

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**EP 03000567 A 20030113**; AT 03000567 T 20030113; DE 10202081 A 20020121; DE 50300643 T 20030113; ES 03000567 T 20030113