

Title (en)  
PUNCHING UNIT

Title (de)  
STANZSTEMPELEINHEIT

Title (fr)  
UNITE DE PERFORATION

Publication  
**EP 1119445 A1 20010801 (EN)**

Application  
**EP 99931704 A 19990615**

Priority  

- SE 9901064 W 19990615
- SE 9802190 A 19980618

Abstract (en)  
[origin: WO9965653A1] A punching unit is included in a machine for manufacturing blanks, in particular corrugated fibreboard or paperboard. The unit comprises means (16) for feeding blanks (15) between two rotatable rolls, one of which (2) is provided with punching tools whereas the other (6) serves as a punching die. The tool roll is provided with means (3) which allow the punching tools to be mounted in desired positions on the roll. The punching unit comprises at least two tool rolls (1, 2) and means (11, 7, 8) for making an optional roll take a working position adjacent to the die roll (6) while at the same time the other takes a ready position, in which it is accessible to mounting of punching tools. Moreover, means (20) are included for temporary locking of the tool rolls in the positions taken, which locking is easily releasable for changing the positions of the rolls.

IPC 1-7  
**B26F 1/10; B26F 1/20; B21D 28/04; B26D 7/26; B31B 1/20**

IPC 8 full level  
**B26D 7/26** (2006.01); **B26F 1/10** (2006.01); **B26F 1/20** (2006.01); **B26F 1/38** (2006.01); **B31B 50/20** (2017.01)

CPC (source: EP)  
**B26F 1/384** (2013.01)

Citation (search report)  
See references of WO 9965653A1

Cited by  
CN111761648A

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

DOCDB simple family (publication)  
**WO 9965653 A1 19991223**; AU 4814099 A 20000105; BR 9911335 A 20010403; DE 69927393 D1 20060202; DE 69927393 T2 20060706;  
EP 1119445 A1 20010801; EP 1119445 B1 20050921; ES 2245829 T3 20060116; JP 2002518191 A 20020625; SE 518566 C2 20021022;  
SE 9802190 D0 19980618; SE 9802190 L 19991219

DOCDB simple family (application)  
**SE 9901064 W 19990615**; AU 4814099 A 19990615; BR 9911335 A 19990615; DE 69927393 T 19990615; EP 99931704 A 19990615;  
ES 99931704 T 19990615; JP 2000554515 A 19990615; SE 9802190 A 19980618