

Title (en)  
ENGRAVER

Title (de)  
GRAVIERORGAN

Title (fr)  
ORGANE A GRAVER

Publication  
**EP 1150842 A1 20011107 (DE)**

Application  
**EP 99963198 A 19991104**

Priority  
• DE 9903521 W 19991104  
• DE 19902884 A 19990125

Abstract (en)  
[origin: DE19902884A1] The engraving unit consists of a oscillating rotation system and its drive system,, and an engraving tool (15) to engrave cupping (20) in the printing cylinder (16). The engraving tool is tilted relative to a line (26) perpendicular to the cylinder surface (17) to increase the free angle (  $\alpha$  ) in the direction of the engraving of the cupping..

IPC 1-7  
**B41C 1/045**

IPC 8 full level  
**B41C 1/045** (2006.01)

CPC (source: EP US)  
**B41C 1/045** (2013.01 - EP US); **Y10T 82/125** (2015.01 - EP US); **Y10T 82/128** (2015.01 - EP US)

Citation (search report)  
See references of WO 0043203A1

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DOCDB simple family (publication)  
**DE 19902884 A1 20000727**; **DE 19902884 B4 20060713**; CN 1109602 C 20030528; CN 1333718 A 20020130; DE 59905687 D1 20030626; EP 1150842 A1 20011107; EP 1150842 B1 20030521; JP 2002535165 A 20021022; JP 3605364 B2 20041222; US 6736035 B1 20040518; WO 0043203 A1 20000727

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**DE 19902884 A 19990125**; CN 99815830 A 19991104; DE 59905687 T 19991104; DE 9903521 W 19991104; EP 99963198 A 19991104; JP 2000594643 A 19991104; US 88930401 A 20010910