

Title (en)  
PERFORATING CUTTER

Publication  
**EP 0307891 B1 19930113 (DE)**

Application  
**EP 88115034 A 19880914**

Priority  
DE 3731117 A 19870916

Abstract (en)  
[origin: JPH01113291A] PURPOSE: To produce signatures forming no crease after folded along an intended fold line by providing many U-shaped perforations where the signatures are alternately placed the other way along or near the fold line. CONSTITUTION: A perforating tool 6 conducts perforation on multilayered signatures 9 so that the signature 9 has many U-shaped perforations 35, 40 and 41 alternately placed the other way along or near the fold line 36. However, because a web 39 does not exist between the bottom cuts 35.1 and 35.2 widely perforated by perforating teeth 24.1 and 26.1, the fold line 36 has a slit-shaped perforation with double length there. Therefore, almost no crease is formed when signature perforated with the perforating tool is folded along the fold line.

IPC 1-7  
**B26F 1/14; B42D 5/02; B42D 15/00**

IPC 8 full level  
**B27F 7/26** (2006.01); **B26F 1/14** (2006.01); **B26F 1/18** (2006.01); **B26F 1/20** (2006.01); **B26F 1/22** (2006.01); **B41F 13/54** (2006.01); **B42C 5/04** (2006.01); **B42D 5/02** (2006.01); **B42D 15/00** (2006.01)

CPC (source: EP US)  
**B26F 1/14** (2013.01 - EP US); **B26F 1/18** (2013.01 - EP US); **B26F 1/20** (2013.01 - EP US); **B26F 1/22** (2013.01 - EP US); **B42D 15/00** (2013.01 - EP US); **Y10T 83/9314** (2015.04 - EP US); **Y10T 428/15** (2015.01 - EP US)

Cited by  
EP0701888A3; US5768969A; DE4433602A1; US5806399A; DE4433604A1; DE4433604C2; US5791219A; EP0707930A2; EP0701888A2; EP0703047A2; WO2009036745A1; EP0865885B1

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

DOCDB simple family (publication)  
**EP 0307891 A2 19890322; EP 0307891 A3 19900124; EP 0307891 B1 19930113**; DE 3731117 A1 19890330; DE 3731117 C2 19900308; DE 3877473 D1 19930225; JP H01113291 A 19890501; JP H0712755 B2 19950215; SU 1669392 A3 19910807; US 4951967 A 19900828

DOCDB simple family (application)  
**EP 88115034 A 19880914**; DE 3731117 A 19870916; DE 3877473 T 19880914; JP 22672188 A 19880912; SU 4356393 A 19880913; US 24372288 A 19880913