

Title (en)  
METHOD AND APPARATUS FOR PERFORATING PAPER

Publication  
**EP 0038977 A3 19821027 (DE)**

Application  
**EP 81102736 A 19810410**

Priority  
DE 3016622 A 19800430

Abstract (en)  
[origin: EP0038977A2] Method and apparatus for producing perforated paper, especially cigarette paper and tip-covering paper. The perforations are produced by guiding the paper between two electrodes to which a voltage sufficient for spark-over is applied. The paper is passed through continuously between the electrodes and the time interval between the spark-overs depends, on the one hand, on a predetermined value and, on the other hand, on the web speed of the paper passed through. In one embodiment, provision is made for different zones to have different perforation densities, for these perforation densities to be measured and for the desired perforation density to be maintained at all times via a controlled system.  
<IMAGE>

IPC 1-7  
**B26F 1/28**

IPC 8 full level  
**B26F 1/28** (2006.01)

CPC (source: EP)  
**B26F 1/28** (2013.01)

Citation (search report)  
• [X] DE 2523608 A1 19761202 - FRAUNHOFER GES FORSCHUNG  
• [X] CH 371725 A 19630831 - VAUTIER FRERES & CIE SA [CH]  
• [X] US 3351740 A 19671107 - HANS HEUER  
• [X] US 3385951 A 19680528 - CLINTON BANCROFT LEWIS, et al  
• [X] US 4025752 A 19770524 - WHITMAN III HOBART A  
• [A] FR 2317888 A1 19770211 - BENKERT GMBH ET CO KG DEUTSCHE [DE]  
• [D] DE 1163216 B 19640213 - MIGNOT & DE BLOCK NV

Cited by  
DE19708311C1; AU755497B2; CN1075977C; CN106132647A; EA031890B1; US6348675B1; WO9907530A1; US11653694B2; WO2015149103A3

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

DOCDB simple family (publication)  
**EP 0038977 A2 19811104; EP 0038977 A3 19821027; DE 3016622 A1 19811119**

DOCDB simple family (application)  
**EP 81102736 A 19810410; DE 3016622 A 19800430**