

Title (en)

Cutting device for printed products with rotating blades

Title (de)

Vorrichtung zum Beschneiden von Druckerzeugnissen mit rotierender Klinge

Title (fr)

Dispositif de coupe à lames rotatives pour produits imprimés

Publication

**EP 1153715 A3 20031105 (DE)**

Application

**EP 01110045 A 20010427**

Priority

US 57020500 A 20000512

Abstract (en)

[origin: EP1153715A2] The rotating blade has an outer blade section (21) with cutting edge (20). The outer section is connected to a thermosiphon core section (5). The core has an evaporation zone (14) near the outer blade section and a condensation zone (13) near its central axis. Core and blade sections form a two-phase thermosiphon, which contains water and is at a pressure below atmospheric pressure. To cool the cutting blade, a working fluid is transported by centrifugal force in direction of the blade (1), the fluid is evaporated, the steam is returned to the rotary axis of the cutter device, and the steam is condensed.

IPC 1-7

**B26D 7/10**

IPC 8 full level

**B26D 7/10** (2006.01)

CPC (source: EP)

**B26D 7/10** (2013.01)

Citation (search report)

- [XY] DE 2052361 A1 19720427
- [Y] US 5134913 A 19920804 - SCHROEDER LOTHAR [DE]
- [Y] US 4643060 A 19870217 - FREMION EDWIN A [US]

Cited by

CN103273525A; CN111948136A

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DOCDB simple family (application)

**EP 01110045 A 20010427; DE 10121242 A 20010430**