

Title (en)
Cutting rule

Title (de)
Stanzmesser

Title (fr)
Outil d'estampage

Publication
EP 0715933 A1 19960612 (DE)

Application
EP 95117933 A 19951114

Priority
DE 4443613 A 19941207

Abstract (en)
The punch cutter (1) has a blade whose cutting edge (2) has a rounded area with radius (3) of 0.005 to 0.040 mm. The rounded edge is additionally hardened with a refined surface finish. The cutting angle (4) for the cutting edges is 30 to 60 deg. The cutting edge of the punch cutter may have straight edges. these taper toward a tip which can be rounded by laser melting.

Abstract (de)
Das Stanzmesser (1) dient zum Ausstanzen von Teilen beliebiger Form aus Papier, Karton, Pappe, Kunststoffolien, Leder, Gummi und dgl.. Damit mit dem Stanzmesser (1) von Beginn an eine optimale Schnittqualität erzeugt werden kann, hat das Stanzmesser (1) eine Schneidenkante (2), die eine Verrundung (9) mit einem Radius (3) von 0,005 bis 0,060 mm aufweist. <IMAGE>

IPC 1-7
B26F 1/44

IPC 8 full level
B26D 1/06 (2006.01); **B26D 1/00** (2006.01); **B26F 1/44** (2006.01); **B31B 50/14** (2017.01); **B31B 50/83** (2017.01)

CPC (source: EP US)
B26D 1/0006 (2013.01 - EP US); **B26F 1/44** (2013.01 - EP US); **B26D 2001/0053** (2013.01 - EP US); **B26D 2001/0086** (2013.01 - EP US); **B26F 1/384** (2013.01 - EP US); **B26F 1/40** (2013.01 - EP US); **B26F 2001/4472** (2013.01 - EP US); **Y10T 83/9423** (2015.04 - EP US); **Y10T 83/9428** (2015.04 - EP US); **Y10T 83/9454** (2015.04 - EP US)

Citation (applicant)

- DE 3317777 C1 19840913 - R & S STANZFORMEN GMBH
- DE 3135980 C1 19830601 - MARBACH GMBH KARL
- DE 3928916 C1 19910124
- US 2349336 A 19440523 - BATCHELDER JAMES W

Citation (search report)

- [XY] US 2361288 A 19441024 - HARDY JR GEORGE E
- [Y] EP 0327530 A2 19890809 - BOEHLER GMBH [AT]
- [DXY] US 2349336 A 19440523 - BATCHELDER JAMES W

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US 5967015 A 19991019; AT E181274 T1 19990715; CN 1129631 A 19960828; CZ 322095 A3 19960612; DE 4443613 C1 19960425; DE 59506228 D1 19990722; EP 0715933 A1 19960612; EP 0715933 B1 19990616; JP H08216098 A 19960827

DOCDB simple family (application)
US 92140397 A 19970829; AT 95117933 T 19951114; CN 95117597 A 19951207; CZ 322095 A 19951205; DE 4443613 A 19941207; DE 59506228 T 19951114; EP 95117933 A 19951114; JP 31940795 A 19951207