

CPC COOPERATIVE PATENT CLASSIFICATION

B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

SHAPING

B26 HAND CUTTING TOOLS; CUTTING; SEVERING

B26F PERFORATING; PUNCHING; CUTTING-OUT; STAMPING-OUT; SEVERING BY MEANS OTHER THAN CUTTING (marking-out, perforating or making buttonholes [A41H 25/00](#); shoemaking [A43D](#); surgery [A61B](#); punching metal [B21D](#); drilling metal [B23B](#); cutting of metal by applying heat locally, e.g. flame cutting, [B23K](#); cutting by abrasive fluid jets [B24C 5/02](#); details common to machines for severing [B26D](#); drilling wood [B27C](#); drilling stone [B28D](#); working of plastics or substances in a plastic state [B29](#); making boxes, cartons, envelopes or bags, of paper or similarly worked materials, e.g. metal foil, [B31B](#); of glass [C03B](#); of leather [C14B](#); of textile materials [D06H](#); for light guides [G02B 6/25](#); of tickets [G07B](#))

NOTES

- This subclass covers:
 - perforating, punching, cutting-out, stamping-out;
 - severing, by means other than cutting, non-metallic sheet materials or metal foil in general;
 - severing, by means other than cutting, other forms of non-metallic material not otherwise provided for.
- Attention is drawn to Notes (1) and (2) following the title of subclass [B26D](#).

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

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| 1/00 | Perforating; Punching; Cutting-out; Stamping-out; Apparatus therefor (subjecting the grinding tools or the abrading medium to vibration, e.g. grinding with ultrasonic frequency B24B 1/04 , perforating by sand-blasting B24C ; {e.g. abrasive blasting used for cutting B24C 1/045 }; punching cards or tapes for statistical and record purposes G06K 1/00) | 1/02 | . Perforating by punching, e.g. with relatively-reciprocating punch and bed |
| | | 1/04 | . . with selectively-operable punches |
| | | 1/06 | . . with punching tools moving with the work |
| | | 1/08 | . . . wherein the tools are carried by, and in operation move relative to, a rotative drum or similar support |
| | | 1/10 | . . . Roller type punches |
| 1/0007 | . {Perforation of photographic films} | 1/12 | . . to notch margins of work |
| 1/0015 | . {specially adapted for perforating tubes} | 1/14 | . . Punching tools; Punching dies |
| 1/0023 | . . {by rotary tools, e.g. saws (B26F 1/0076 takes precedence)} | 1/16 | . Perforating by tool or tools of the drill type |
| 1/003 | . . . {of the drill type} | 1/165 | . . {by flow drilling (for metal B21C 37/292)} |
| 1/0038 | . . {from the inside (B26F 1/0053 takes precedence)} | 1/18 | . Perforating by slitting, i.e. forming cuts closed at their ends without removal of material |
| 1/0046 | . . {by tools that follow a closed path around the tube (B26F 1/0053 takes precedence)} | 1/20 | . . with tools carried by a rotating drum or similar support (B26F 1/22 takes precedence) |
| 1/0053 | . . {by machining, e.g. cutting, grinding, projections on the tube wall} | 1/22 | . . to form non-rectilinear cuts, e.g. for tabs |
| 1/0061 | . . {whereby the tube moves axially or radially (B26F 1/0038 , B26F 1/0046 , B26F 1/0053 take precedence)} | 1/24 | . Perforating by needles or pins |
| 1/0069 | . . . {and the tool travels with the tube} | 1/26 | . Perforating by non-mechanical means, e.g. by fluid jet |
| 1/0076 | . . . {and the tool rotates} | 1/28 | . . by electrical discharges |
| 1/0084 | . {specially adapted for perforating rubber} | 1/31 | . . by radiation (by laser beam B23K 26/00) |
| 1/0092 | . {Perforating means specially adapted for printing machines (B26F 1/02 - B26F 1/46 take precedence)} | 1/32 | . Hand-held perforating or punching apparatus, e.g. awls |
| | | 1/34 | . . power actuated (details or components, e.g. casings, bodies, of portable power-driven tools not particularly related to the operation performed B25F 5/00) |
| | | 1/36 | . . Punching or perforating pliers |

B26F

- 2001/365 . . . {hand held pliers with handles}
- 1/38 . Cutting-out; Stamping-out
- 1/3806 . . {wherein relative movements of tool head and work during cutting have a component tangential to the work surface ([B26F 1/40](#) takes precedence)}
- 1/3813 . . . {wherein the tool head is moved in a plane parallel to the work in a coordinate system fixed with respect to the work}
- 1/382 {wherein the cutting member reciprocates in, or substantially in, a direction parallel to the cutting edge}
- 1/3826 {using a rotary circular cutting member}
- 1/3833 {using an endless band-knife or the like}
- 1/384 . . {using rotating drums}
- 1/3846 . . {cutting out discs or the like ([B26F 1/384](#), [B26F 1/40](#) and [B26F 1/44](#) take precedence)}
- 1/3853 . . {cutting out frames ([B26F 1/384](#), [B26F 1/40](#) and [B26F 1/44](#) take precedence)}
- 1/386 . . {Draw punches, i.e. punch and die assembled on opposite sides of a workpiece via a connecting member passing through an aperture in the workpiece}
- 1/3866 . . {specially adapted for rubber}
- 2001/3873 . . {advancing the material stepwise onto the work surface of the cutting machine}
- 2001/388 . . {controlling the blade orientation along the cutting path}
- 2001/3886 . . {shearing by reciprocating a straight blade, e.g. nibbling}
- 2001/3893 . . {cutting out by using an oscillating needle}
- 1/40 . . using a press, e.g. of the ram type ([presses in general B30B](#))
- 2001/402 . . . {curvilinear cutting presses, i.e. the stroke comprising an overlay of a linear and a curved movement}
- 1/405 . . . {Travelling head presses}
- 2001/407 . . . {stepwise sequential punching processes}
- 1/42 . . . having a pressure roller
- 1/44 . . Cutters therefor; Dies therefor
- 2001/4409 . . . {having die balancing or compensating means}
- 2001/4418 . . . {combining cutting and embossing operations}
- 2001/4427 . . . {combining cutting and forming operations}
- 2001/4436 . . . {Materials or surface treatments therefore}
- 2001/4445 . . . {Matrices, female dies, creasing tools}
- 2001/4454 . . . {Die heads carrying several moveable tools}
- 2001/4463 . . . {Methods and devices for rule setting, fixation, preparing cutting dies}
- 2001/4472 . . . {Cutting edge section features}
- 2001/4481 . . . {having special lateral or edge outlines or special surface shapes, e.g. apertures}
- 2001/449 . . . {for shearing, e.g. with adjoining or abutting edges}
- 1/46 . . . Loose press knives
- 3/00 Severing by means other than cutting; Apparatus therefor** ([severing by grinding B24B 27/06](#))
- 3/002 . {Precutting and tensioning or breaking}
- 3/004 . {by means of a fluid jet ([methods for use of abrasive blasting for cutting B24C 1/045](#); [guns for abrasive fluid jets B24C 5/02](#); [perforating by non-mechanical means, e.g. by fluid jet B26F 1/26](#))}
- 2003/006 . . {having a shutter or water jet deflector}
- 3/008 . . {Energy dissipating devices therefor, e.g. catchers; Supporting beds therefor ([cutting beds in general B26D 7/20](#))}
- 3/02 . Tearing
- 3/04 . Severing by squeezing ([B26F 3/08](#) takes precedence)
- 3/06 . Severing by using heat
- 3/08 . . with heated members
- 3/10 . . . with heated rollers or discs
- 3/12 . . . with heated wires
- 3/16 . . by radiation ([by laser beam B23K 26/00](#))
- 2210/00 Perforating, punching, cutting-out, stamping-out, severing by means other than cutting of specific products**
- 2210/02 . of stacked sheets
- 2210/04 . Making plastic pilferproof screw caps by cutting a tamper ring
- 2210/06 . Trimming plastic mouldings
- 2210/08 . of ceramic green sheets, printed circuit boards and the like
- 2210/11 . of plastic containers before compressing
- 2210/12 . of fabrics
- 2210/14 . . the cutting machine comprising a rotary knife
- 2210/16 . . the cutting machine comprising a cutting die