

# 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

1. 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.
2. 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.

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

- 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