

# 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](#).

<b>1/00</b>	<b>Perforating; Punching; Cutting-out; Stamping-out; Apparatus therefor</b> (subjecting the grinding tools or the abrading medium to vibration, e.g. grinding with ultrasonic frequency <a href="#">B24B 1/04</a> , perforating by sand-blasting <a href="#">B24C</a> ; {e.g. abrasive blasting used for cutting <a href="#">B24C 1/045</a> }; punching cards or tapes for statistical and record purposes <a href="#">G06K 1/00</a> )	1/08	. . . wherein the tools are carried by, and in operation move relative to, a rotative drum or similar support
1/0007	. {Perforation of photographic films}	1/10	. . . Roller type punches
1/0015	. {specially adapted for perforating tubes}	1/12	. . to notch margins of work
1/0023	. . {by rotary tools, e.g. saws ( <a href="#">B26F 1/0076</a> takes precedence)}	1/14	. . Punching tools; Punching dies
1/003	. . . {of the drill type}	1/16	. Perforating by tool or tools of the drill type
1/0038	. . {from the inside ( <a href="#">B26F 1/0053</a> takes precedence)}	1/165	. . {by flow drilling (for metal <a href="#">B21C 37/292</a> )}
1/0046	. . {by tools that follow a closed path around the tube ( <a href="#">B26F 1/0053</a> takes precedence)}	1/18	. Perforating by slitting, i.e. forming cuts closed at their ends without removal of material
1/0053	. . {by machining, e.g. cutting, grinding, projections on the tube wall}	1/20	. . with tools carried by a rotating drum or similar support ( <a href="#">B26F 1/22</a> takes precedence)
1/0061	. . {whereby the tube moves axially or radially ( <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. for tabs
1/0069	. . . {and the tool travels with the tube}	1/24	. Perforating by needles or pins
1/0076	. . . {and the tool rotates}	1/26	. Perforating by non-mechanical means, e.g. by fluid jet
1/0084	. {specially adapted for perforating rubber}	1/28	. . by electrical discharges
1/0092	. {Perforating means specially adapted for printing machines ( <a href="#">B26F 1/02</a> - <a href="#">B26F 1/46</a> take precedence)}	1/31	. . by radiation (by laser beam <a href="#">B23K 26/00</a> )
1/02	. Perforating by punching, e.g. with relatively-reciprocating punch and bed	1/32	. Hand-held perforating or punching apparatus, e.g. awls
1/04	. . with selectively-operable punches	1/34	. . power actuated (details or components, e.g. casings, bodies, of portable power-driven tools not particularly related to the operation performed <a href="#">B25F 5/00</a> )
1/06	. . with punching tools moving with the work	1/36	. . Punching or perforating pliers
		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 ( <a href="#">B26F 1/40</a> takes precedence)}

## B26F

- 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 therefor}
- 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