COOPERATIVE PATENT CLASSIFICATION

B PERFORMING OPERATIONS; TRANSPORTING

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.

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)

1/0007 . [Perforation of photographic films]
1/0015 . [specially adapted for perforating tubes]
1/0023 . [by rotary tools, e.g. saws (B26F 1/0076 takes precedence)]
1/003 . [of the drill type]
1/0038 . [from the inside (B26F 1/0053 takes precedence)]
1/0046 . [by tools that follow a closed path around the tube (B26F 1/0053 takes precedence)]
1/0053 . [by machining, e.g. cutting, grinding, projections on the tube wall]
1/0061 . [whereby the tube moves axially or radially (B26F 1/0038, B26F 1/0046, B26F 1/0053 take precedence)]
1/0069 . [and the tool travels with the tube]
1/0076 . [and the tool rotates]
1/0084 . [specially adapted for perforating rubber]
1/0092 . [Perforating means specially adapted for printing machines (B26F 1/02 - B26F 1/46 take precedence)]

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]
1/12 . [to notch margins of work]
1/14 . [Punching tools; Punching dies]
1/16 . [Perforating by tool or tools of the drill type]
1/165 . [by flow drilling (for metal B21C 37/292)]
1/18 . [Perforating by slitting, i.e. forming cuts closed at their ends without removal of material]
1/20 . [with tools carried by a rotating drum or similar support (B26F 1/22 takes precedence)]
1/22 . [to form non-rectilinear cuts, e.g. for tabs]
1/24 . [Perforating by needles or pins]
1/26 . [Perforating by non-mechanical means, e.g. by fluid jet]
1/28 . [by electrical discharges]
1/31 . [by radiation (by laser beam B23K 26/00)]
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]
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]

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