

ECLA EUROPEAN CLASSIFICATION

B26F

PERFORATING; PUNCHING; CUTTING-OUT; STAMPING-OUT; SEVERING BY MEANS OTHER THAN CUTTING (marking-out, perforating or making buttonholes [A41H25/00](#); 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 [B24C5/02](#); 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 [G02B6/25](#); 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.

B26F1/00

Perforating; Punching; Cutting-out; Stamping-out; Apparatus therefor (subjecting the grinding tools or the abrading medium to vibration, e.g. grinding with ultrasonic frequency [B24B1/04](#), perforating by sand-blasting [B24C](#); [N: e.g. abrasive blasting used for cutting [B24C1/04B](#)]; punching cards or tapes for statistical and record purposes [G06K1/00](#))

- B26F1/00B . [N: Perforation of photographic films]
- B26F1/00C . [N: specially adapted for perforating tubes]
- B26F1/00C2 . . [N: by rotary tools, e.g. saws ([B26F1/00C10B](#) takes precedence)]
- B26F1/00C2A . . . [N: of the drill type]
- B26F1/00C4 . . [N: from the inside ([B26F1/00C8](#) takes precedence)]
- B26F1/00C6 . . [N: by tools that follow a closed path around the tube ([B26F1/00C8](#) takes precedence)]
- B26F1/00C8 . . [N: by machining, e.g. cutting, grinding, projections on the tube wall]
- B26F1/00C10 . . [N: whereby the tube moves axially or radially ([B26F1/00C4](#), [B26F1/00C6](#), [B26F1/00C8](#) take precedence)]
- B26F1/00C10A . . . [N: and the tool travels with the tube]
- B26F1/00C10B . . . [N: and the tool rotates]
- B26F1/00D . [N: specially adapted for perforating rubber]
- B26F1/00Z . [N: Perforating means specially adapted for printing machines ([B26F1/02](#) to [B26F1/46](#) take precedence)] [N0001]

- B26F1/02 . Perforating by punching, e.g. with relatively-reciprocating punch and bed
- B26F1/04 . . with selectively-operable punches
- B26F1/06 . . with punching tools moving with the work
- B26F1/08 . . . wherein the tools are carried by, and in operation move relative to, a rotative drum or similar support
- B26F1/10 . . . Roller type punches
- B26F1/12 . . to notch margins of work
- B26F1/14 . . Punching tools; Punching dies

- B26F1/16 . Perforating by tool or tools of the drill type
- B26F1/16B . . [N: by flow drilling (for metal [B21C37/29B](#))]

- B26F1/18 . Perforating by slitting, i.e. forming cuts closed at their ends without removal of material
- B26F1/20 . . with tools carried by a rotating drum or similar support ([B26F1/22](#) takes precedence)
- B26F1/22 . . to form non-rectilinear cuts, e.g. for tabs

- B26F1/24 . Perforating by needles or pins

- B26F1/26 . Perforating by non-mechanical means, e.g. by fluid jet
- B26F1/28 . . by electrical discharges
- B26F1/31 . . by radiation (by laser beam [B23K26/00](#))

- B26F1/32 . Hand-held perforating or punching apparatus, e.g. awls
- B26F1/34 . . power actuated (details or components, e.g. casings, bodies, of portable power-driven tools not particularly related to the operation performed [B25F5/00](#))
- B26F1/36 . . Punching or perforating pliers

- B26F1/38 . Cutting-out; Stamping-out
- B26F1/38A . . [N: wherein relative movements of tool head and work during cutting have a component tangential to the work surface ([B26F1/40](#) takes precedence)] [N9809]
- B26F1/38A2 . . . [N: wherein the tool head is moved in a plane parallel to the work in a coordinate system fixed with respect to the work] [9809]
- B26F1/38A2B [N: wherein the cutting member reciprocates in, or substantially in, a direction parallel to the cutting edge][N9809]
- B26F1/38A2D [N: using a rotary circular cutting member] [N9809]
- B26F1/38A2F [N: using an endless band-knife or the like] [N9809]
- B26F1/38B . . [N: using rotating drums]
- B26F1/38C . . [N: cutting out discs or the like ([B26F1/38B](#), [B26F1/40](#) and [B26F1/44](#) take precedence)]
- B26F1/38D . . [N: cutting out frames ([B26F1/38B](#), [B26F1/40](#) and [B26F1/44](#) take precedence)]
- B26F1/38E . . [N: 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]
- B26F1/38F . . [N: specially adapted for rubber]
- B26F1/40 . . using a press, e.g. of the ram type (presses in general [B30B](#))
- B26F1/40B . . . [N: Travelling head presses]

- B26F1/42 . . . having a pressure roller
- B26F1/44 . . Cutters therefor; Dies therefor
- B26F1/46 . . . Loose press knives

- B26F3/00** **Severing by means other than cutting; Apparatus therefor** ([severing by grinding B24B27/06](#))

- B26F3/00B . [N: Precutting and tensioning or breaking]
- B26F3/00C . [N: by means of a fluid jet (methods for use of abrasive blasting for cutting [B24C1/04B](#); guns for abrasive fluid jets [B24C5/02](#); perforating by non-mechanical means, e.g. by fluid jet [B26F1/26](#))]
- B26F3/00C2 . . [N: Energy dissipating devices therefor, e.g. catchers; Supporting beds therefor (cutting beds in general [B26D7/20](#))]

- B26F3/02 . Tearing

- B26F3/04 . Severing by squeezing ([B26F3/08](#) takes precedence)

- B26F3/06 . Severing by using heat
- B26F3/08 . . with heated members
- B26F3/10 . . . with heated rollers or discs
- B26F3/12 . . . with heated wires
- B26F3/16 . . by radiation (by laser beam [B23K26/00](#))