SECTION B — PERFORMING OPERATIONS; TRANSPORTING

B26 HAND CUTTING TOOLS; CUTTING; SEVERING

B26D CUTTING; DETAILS COMMON TO MACHINES FOR PERFORATING, PUNCHING, CUTTING-OUT, STAMPING-OUT OR SEVERING (disintegrating by knives or other cutting or tearing members which chop material into fragments B02C 18/00; cutting by abrasive fluid jets B24C 5/02; hand-held cutting tools B26B) **[2, 5]**

Note(s)

1. This subclass covers :
   - cutting non-metallic sheet material or metal foil in general;
   - cutting other forms of non-metallic material not otherwise provided for;
   - features specific to machines for cutting, perforating, punching, cutting-out, stamping-out, or severing by means other than cutting, which relate to a requirement or problem of a nature which is not peculiar to a machine for these purposes, that is, details of or arrangements for operating or controlling such machines, although the realisation of such features may differ according to the kind of machine concerned. This subclass covers such features in general even if the feature, in any particular case, is to some extent peculiar to, or is claimed only for, a machine designed for perforating, punching, cutting-out, stamping-out, or for severing other than by cutting.
2. If the details or arrangements have no essential features specific to cutting, perforating, punching, cutting-out, stamping-out or severing machines, the more general classes, e.g. F16, take precedence.

Subclass index

CUTTING CHARACTERISED BY THE CUTTING MEMBER OR BY THE NATURE OF THE CUT PERFORMED.....1/00, 3/00
ARRANGEMENTS FOR OPERATING AND CONTROLLING; DETAILS OF APPARATUS FOR SEVERING.....5/00, 7/00
COMBINED APPARATUS.....9/00, 11/00

1/00 Cutting through work characterised by the nature or movement of the cutting member; Apparatus or machines therefor; Cutting members therefor [3]

1/01 • involving a cutting member which does not travel with the work **[3]**

1/02 • • having a stationary cutting member (B26D 1/547 takes precedence) **[3]**

1/03 • • • with a plurality of cutting members **[3]**

1/04 • • having a linearly-movable cutting member (B26D 1/46, B26D 1/547 take precedence) **[3]**

1/06 • • • wherein the cutting member reciprocates **[3]**

1/08 • • • • of the guillotine type **[3]**

1/09 • • • • • with a plurality of cutting members **[3]**

1/10 • • • • in, or substantially in, a direction parallel to the cutting edge **[3]**

1/11 • • • • • with a plurality of cutting members **[3]**

1/12 • • having a cutting member moving about an axis (B26D 1/547 takes precedence) **[3]**

1/14 • • • with a circular cutting member, e.g. disc cutter **[3]**

1/143 • • • • rotating about a stationary axis (B26D 1/20-B26D 1/24 take precedence) **[3]**

1/147 • • • • • with horizontal cutting member **[3]**

1/15 • • • • • with vertical cutting member **[3]**

1/153 • • • • • with inclined cutting member **[3]**

1/157 • • • • rotating about a movable axis (B26D 1/20-B26D 1/24 take precedence) **[3]**

1/16 • • • • • mounted on a movable arm or the like **[3]**

1/18 • • • • • mounted on a movable carriage **[3]**

1/20 • • • • coacting with a fixed member **[3]**

1/22 • • • • coacting with a movable member, e.g. a roller (B26D 1/24 takes precedence) **[3]**

1/24 • • • • coacting with another disc cutter **[3]**

1/25 • • • with a non-circular cutting member **[3]**

1/26 • • • • moving about an axis substantially perpendicular to the line of cut **[3]**

1/28 • • • • • and rotating continuously in one direction during cutting **[3]**

1/29 • • • • • • with cutting member mounted in the plane of a rotating disc, e.g. for slicing beans **[3]**

1/30 • • • • • with limited pivotal movement to effect cut **[3]**

1/34 • • • • moving about an axis parallel to the line of cut **[3]**

1/36 • • • • • and rotating continuously in one direction during cutting, e.g. mounted on a rotary cylinder **[3]**

1/38 • • • • • and coacting with a fixed blade or other fixed member **[3]**

1/40 • • • • • and coacting with a rotary member **[3]**

1/42 • • • • • and slidably mounted in a rotary member **[3]**

1/43 • • • • moving about another axis, e.g. mounted on the surface of a cone or curved body **[3]**

1/44 • • having a cup or like cutting member **[3]**

1/45 • • having a cutting member the movement of which is not covered by any preceding group **[3]**
1/46 • • having an endless band-knife or the like **[3]**
1/48 • • • with tensioning means **[3]**
1/50 • • • with a plurality of band-knives or the like **[3]**
1/52 • • • • having adjustable spacing between knives **[3]**
1/54 • • • Guides for band-knives or the like **[3]**
1/547 • • having a wire-like cutting member (endless wire B26D 1/46; severing using a heated wire B26F 3/12) **[3]**
1/553 • • • with a plurality of wire-like cutting members **[3]**
1/56 • involving a cutting member which travels with the work, i.e. flying cutter **[3]**
1/58 • • and is mounted on a movable arm or the like **[3]**
1/60 • • and is mounted on a movable carriage **[3]**
1/62 • • and is rotating about an axis parallel to the line of cut, e.g. mounted on a rotary cylinder **[3]**

3/00 Cutting work characterised by the nature of the cut made; Apparatus therefor [3]
3/02 • Bevelling
3/06 • Grooving involving removal of material from the surface of the work
3/08 • Making a superficial cut in the surface of the work without removal of material, e.g. scoring, incising
3/10 • Making cuts of other than simple rectilinear form (cutting-out or stamping-out B26F 1/38)
3/11 • • to obtain pieces of spiral or helical form **[3]**
3/12 • Slitting marginal portions of the work, i.e. forming cuts, without removal of material, at an angle, e.g. a right angle, to the edge of the work
3/14 • Forming notches in marginal portion of work by cutting
3/16 • Cutting rods or tubes transversely
3/18 • to obtain cubes or the like **[3]**
3/20 • • using reciprocating knives
3/22 • • using rotating knives
3/24 • to obtain segments other than slices, e.g. cutting pies
3/26 • • specially adapted for cutting fruit or vegetables, e.g. for onions
3/28 • Splitting layers from work; Mutually separating layers by cutting (B26D 3/30 takes precedence) **[3]**
3/30 • Halving devices, e.g. for halving buns **[3]**

Note(s)

In groups B26D 5/00 and B26D 7/00, the following term is used with the meaning indicated:

- "cutting" includes cutting-out, stamping-out, punching, perforating or severing by means other than cutting.

5/00 Arrangements for operating and controlling machines or devices for cutting, cutting-out, stamping-out, punching, perforating, or severing by means other than cutting
5/02 • Means for moving the cutting member into its operative position for cutting
5/04 • • by fluid pressure
5/06 • • by electrical means
5/08 • Means for actuating the cutting member to effect the cut
5/10 • • Hand or foot actuated means
5/12 • • Fluid-pressure means
5/14 • • Crank and pin means
5/16 • • Cam means
5/18 • • Toggle-link means (B26D 5/10-B26D 5/16 take precedence)
5/20 • with interrelated action between the cutting member and work feed
5/22 • • having the cutting member and work feed mechanically connected
5/24 • • • including a metering device
5/26 • • wherein control means on the work feed means renders the cutting member operative
5/28 • • • the control means being responsive to presence or absence of work
5/30 • • having the cutting member controlled by scanning a record carrier
5/32 • • • with the record carrier formed by the work itself
5/34 • • • scanning being effected by a photosensitive device
5/36 • • • scanning being effected by magnetic means
5/38 • with means operable by the moving work to initiate the cutting action
5/40 • • including a metering device
5/42 • with interrelated action between work feed and clamp

7/00 Details of apparatus for cutting, cutting-out, stamping-out, punching, perforating, or severing by means other than cutting [5]
7/01 • Means for holding or positioning work **[3]**
7/02 • • with clamping means **[3]**
7/04 • • • providing adjustable clamping pressure **[3]**
7/06 • Arrangements for feeding or delivering work of other than sheet, web, or filamentary form
7/08 • Means for treating work or cutting member to facilitate cutting (tensioning band cutters B26D 1/48)
7/10 • • by heating (severing with heated members B26F 3/08)
7/12 • • by sharpening the cutting member
7/14 • • by tensioning the work
7/18 • Means for removing cut-out material or waste
7/20 • Cutting beds
7/22 • Safety devices specially adapted for cutting machines
7/24 • • arranged to disable the operating means for the cutting member
7/26 • Means for mounting or adjusting the cutting member; Means for adjusting the stroke of the cutting member
7/27 • Means for performing other operations combined with cutting (B26D 9/00 takes precedence) **[3]**
7/28 • • for counting the number of cuts or measuring cut lengths (B26D 5/24, B26D 5/40 take precedence) **[3]**
7/30 • • for weighing cut product **[3]**
7/32 • • for conveying or stacking cut product (means for removing cut-out material or waste B26D 7/18) **[3]**
7/34 • • for applying a coating, such as butter, to cut product **[3]**

9/00 Cutting apparatus combined with punching or perforating apparatus or with dissimilar cutting apparatus

11/00 Combinations of several similar cutting apparatus