

**B 31 B MAKING BOXES, CARTONS, ENVELOPES, OR BAGS** (incising, scoring, in general [B 26 D 3/08](#); combined making and filling [B 65 B](#))

### Notes

- (1) In this subclass, envelopes or bags are regarded as being essentially flexible containers, the final shape of which is determined by their contents.
- (2) In this subclass, the following expression is used with the meaning indicated:
  - “boxes or cartons” includes bags formed similarly to cartons, trays with upstanding side-walls, barrels, tubes and cups, other than articles formed by winding.
- (3) In groups [3/00](#) to [41/00](#), subgroups which have not been printed in the Classification but which correspond exactly in wording, hierarchical position and subgroup numbering to the relevant subgroups of group [1/00](#) may be used when classifying. For example, a machinery specifically for folding sheets around mandrels could be classified either in group [9/26](#) (which is printed) or in group [9/28](#) (which is not printed).

### Subclass Index

MAKING IN GENERAL.....[1/00](#), [47/00](#), [49/00](#)

#### MAKING BOXES OR CARTONS

Characterised by the method of making

- by folding a single piece.....[3/00](#), [5/00](#)
- by assembling pieces.....[13/00](#), [17/00](#)
- by other shaping under pressure.....[43/00](#)

Characterised by the kind of articles

- lined or reinforced articles.....[7/00](#), [9/00](#), [15/00](#)
- other specified articles.....[11/00](#), [13/00](#), [45/00](#)

#### MAKING ENVELOPES OR BAGS

Characterised by the method of making

- from sheets.....[21/00](#), [31/00](#) to [35/00](#)
- from webs.....[23/00](#), [37/00](#)
- by other shaping under pressure.....[43/00](#)

Characterised by the kind of articles

- flat rectangular articles.....[19/00](#) to [23/00](#)
- articles with bases provided for thickness.....[29/00](#) to [37/00](#)
- other specified articles.....[25/00](#), [27/00](#), [39/00](#), [41/00](#), [45/00](#)

<b>1/00</b>	<b>Box, carton, envelope or bag making machinery characterised by performing specific operations</b> (machinery for performing operations of general application, <u>see</u> the appropriate subclasses)	1/46	. . . and interconnecting side walls during such movement
1/02	. Feeding or positioning sheets, blanks, or webs	1/48	. . . . by folding or tucking in locking flaps
1/04	. . Feeding sheets or blanks	1/50	. . . . . by interengaging tongues and slots
1/06	. . . from stacks	1/52	. . by reciprocating or oscillating members, e.g. fingers other than plungers and dies
1/08	. . . during envelope- or bag-making operations	1/54	. . . operating on moving material
1/10	. . Feeding or positioning webs	1/56	. . by rotary members co-operating with blades
1/12	. . by air pressure or suction	1/58	. . by moving endless belts
1/14	. Cutting, e.g. perforating, punching, slitting, trimming	1/60	. Uniting opposed surfaces or edges; Taping
1/16	. . Cutting webs to form sheets or blanks	1/62	. . by adhesives
1/18	. . Slitting webs longitudinally	1/64	. . by applying heat or pressure
1/20	. . Cutting sheets or blanks	1/66	. . . high-frequency electric heating
1/22	. . . Notching; Trimming edges of flaps	1/68	. . by stitching, stapling, or riveting
1/24	. . . Making window openings	1/70	. . . by corner stapling
1/25	. Surface scoring (cutting through material <a href="#">1/14</a> ) [2]	1/72	. . by applying and securing strips or sheets
1/26	. Folding sheets, blanks, or webs	1/74	. Auxiliary operations
1/28	. . around mandrels, including bottom-forming operations	1/76	. . Opening and distending flattened articles
1/30	. . . the mandrels moving	1/78	. . . mechanically
1/32	. . . . in circular paths	1/80	. . . pneumatically
1/34	. . . . about their own axes	1/82	. . Attaching windows
1/36	. . by continuously feeding same to stationary members, e.g. plates, ploughs, cores	1/84	. . Forming valves or applying valve inserts (connection of valves to inflatable elastic bodies <a href="#">B 60 C 29/00</a> )
1/38	. . . the members being forming-tubes	1/86	. . Forming integral handles or mounting separate handles (making separate handles by multi-step processes <a href="#">B 31 D 1/06</a> )
1/40	. . . . acting internally	1/88	. . Printing or embossing
1/42	. . . . acting externally	1/90	. . Attaching accessories not otherwise provided for, e.g. opening or closure devices, tear strings
1/44	. . by plungers moving through folding dies		

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- 1/92 . . . Delivering
- 1/94 . . . singly or in succession
- 1/96 . . . . in overlapping arrangement
- 1/98 . . . . in stacks or bundles

### Machinery for making boxes or cartons

#### Note

Attention is drawn to Note (3) following the subclass title. [4]

#### **3/00 Machinery characterised by making boxes or cartons by folding single-piece sheets, blanks, or webs (5/00 takes precedence)**

- 3/02 . and having means for feeding or positioning sheets, blanks, or webs
- 3/14 . and having means for cutting, e.g. perforating, punching, slitting, trimming
- 3/60 . and having means for uniting opposed surfaces or edges, or for taping
- 3/74 . and having means for effecting auxiliary operations

#### **5/00 Machinery characterised by making boxes or cartons by folding single-piece sheets which can be set-up from a collapsed condition, including setting-up and recollapsing to break creases**

- 5/02 . and having means for feeding or positioning sheets
- 5/14 . and having means for cutting, e.g. perforating, punching, slitting, trimming
- 5/60 . and having means for uniting opposed surfaces or edges, or for taping
- 5/74 . and having means for effecting auxiliary operations

#### **7/00 Machinery characterised by making lined or internally-reinforced boxes or cartons (11/00 takes precedence)**

- 7/02 . and having means for feeding or positioning sheets, blanks, or webs
- 7/14 . and having means for cutting, e.g. perforating, punching, slitting, trimming
- 7/26 . and having means for folding sheets, blanks, or webs
- 7/60 . and having means for uniting opposed surfaces or edges, or for taping
- 7/74 . and having means for effecting auxiliary operations

#### **9/00 Machinery characterised by making boxes or cartons having shouldered walls**

- 9/02 . and having means for feeding or positioning sheets, blanks, or webs
- 9/14 . and having means for cutting, e.g. perforating, punching, slitting, trimming
- 9/26 . and having means for folding sheets, blanks, or webs
- 9/60 . and having means for uniting opposed surfaces or edges, or for taping
- 9/74 . and having means for effecting auxiliary operations

#### **11/00 Machinery characterised by making boxes or cartons having partitions or like inserts not integral with walls (making partitions, inserts, or reinforcements for boxes or cartons B 31 D)**

- 11/02 . and having means for feeding or positioning sheets, blanks, or webs
- 11/14 . and having means for cutting, e.g. perforating, punching, slitting, trimming
- 11/26 . and having means for folding sheets, blanks, or webs

- 11/60 . and having means for uniting opposed surfaces or edges, or for taping
- 11/74 . and having means for effecting auxiliary operations

#### **13/00 Machinery characterised by assembling drawer-and-shell boxes or cartons**

- 13/02 . and having means for feeding or positioning sheets, blanks, or webs
- 13/14 . and having means for cutting, e.g. perforating, punching, slitting, trimming
- 13/26 . and having means for folding sheets, blanks, or webs
- 13/60 . and having means for uniting opposed surfaces or edges, or for taping
- 13/74 . and having means for effecting auxiliary operations

#### **15/00 Machinery characterised by making covered or externally-reinforced boxes or cartons**

- 15/02 . and having means for feeding or positioning sheets, blanks, or webs
- 15/14 . and having means for cutting, e.g. perforating, punching, slitting, trimming
- 15/26 . and having means for folding sheets, blanks, or webs
- 15/60 . and having means for uniting opposed surfaces or edges, or for taping
- 15/74 . and having means for effecting auxiliary operations

#### **17/00 Machinery characterised by making other boxes or cartons by assembling several separate sheets, blanks, or webs**

- 17/02 . and having means for feeding or positioning sheets, blanks, or webs
- 17/14 . and having means for cutting, e.g. perforating, punching, slitting, trimming
- 17/26 . and having means for folding sheets, blanks, or webs
- 17/60 . and having means for uniting opposed surfaces or edges, or for taping
- 17/74 . and having means for effecting auxiliary operations

### Machinery for making envelopes or bags

#### Notes

- (1) Attention is drawn to Note (3) following the subclass title. [4]
- (2) Machinery for making boxes or cartons as well as envelopes or bags is classified in groups 3/00 to 17/00.

#### **19/00 Machinery characterised by making rectangular envelopes or bags of flat form, i.e. without structural provision at the base for thickness of contents (21/00, 23/00 take precedence)**

- 19/02 . and having means for feeding or positioning sheets, blanks, or webs
- 19/14 . and having means for cutting, e.g. perforating, punching, slitting, trimming
- 19/26 . and having means for folding sheets, blanks, or webs
- 19/60 . and having means for uniting opposed surfaces or edges, or for taping
- 19/74 . and having means for effecting auxiliary operations

#### **21/00 Machinery characterised by making rectangular envelopes or bags of flat form, i.e. without structural provision at the base for thickness of contents, from sheets or blanks, e.g. from flattened tubes**

- 21/02 . and having means for feeding or positioning sheets or blanks

- 21/14 . and having means for cutting, e.g. perforating, punching, slitting, trimming
- 21/26 . and having means for folding sheets or blanks
- 21/60 . and having means for uniting opposed surfaces or edges, or for taping
- 21/74 . and having means for effecting auxiliary operations
- 23/00 Machinery characterised by making rectangular envelopes or bags of flat form, i.e. without structural provision at the base for thickness of contents, from webs, e.g. from flattened tubular webs** (machinery characterised by cutting sheets or blanks from webs and working them to form such envelopes or bags 21/00)
- 23/02 . and having means for feeding or positioning webs
- 23/14 . and having means for cutting, e.g. perforating, punching, slitting, trimming
- 23/26 . and having means for folding webs
- 23/60 . and having means for uniting opposed surfaces or edges, or for taping
- 23/74 . and having means for effecting auxiliary operations
- 25/00 Machinery characterised by making pointed or tapered envelopes or bags**
- 25/02 . and having means for feeding or positioning sheets, blanks, or webs
- 25/14 . and having means for cutting, e.g. perforating, punching, slitting, trimming
- 25/26 . and having means for folding sheets, blanks, or webs
- 25/60 . and having means for uniting opposed surfaces or edges, or for taping
- 25/74 . and having means for effecting auxiliary operations
- 27/00 Machinery characterised by making interconnected envelopes or bags**
- 27/02 . and having means for feeding or positioning sheets, blanks, or webs
- 27/14 . and having means for cutting, e.g. perforating, punching, slitting, trimming
- 27/26 . and having means for folding sheets, blanks, or webs
- 27/60 . and having means for uniting opposed surfaces or edges, or for taping
- 27/74 . and having means for effecting auxiliary operations
- 29/00 Machinery characterised by making envelopes or bags with structural provision at the base for thickness or contents (31/00 to 37/00 take precedence)**
- 29/02 . and having means for feeding or positioning sheets, blanks, or webs
- 29/14 . and having means for cutting, e.g. perforating, punching, slitting, trimming
- 29/26 . and having means for folding sheets, blanks, or webs
- 29/60 . and having means for uniting opposed surfaces or edges, or for taping
- 29/74 . and having means for effecting auxiliary operations
- 31/00 Machinery characterised by making envelopes or bags with structural provision at the base for thickness of contents, from sheets or blanks, e.g. from flattened tubes (33/00, 35/00 take precedence)**
- 31/02 . and having means for feeding or positioning sheets or blanks
- 31/14 . and having means for cutting, e.g. perforating, punching, slitting, trimming
- 31/26 . and having means for folding sheets or blanks
- 31/60 . and having means for uniting opposed surfaces or edges, or for taping
- 31/74 . and having means for effecting auxiliary operations
- 33/00 Machinery characterised by making envelopes or bags with structural provision at the base for thickness of contents, from sheets or blanks, e.g. from flattened tubes, the longitudinal axes of the envelopes or bags being parallel to the direction in which the sheets or blanks are fed**
- 33/02 . and having means for feeding or positioning sheets or blanks
- 33/14 . and having means for cutting, e.g. perforating, punching, slitting, trimming
- 33/26 . and having means for folding sheets or blanks
- 33/60 . and having means for uniting opposed surfaces or edges, or for taping
- 33/74 . and having means for effecting auxiliary operations
- 35/00 Machinery characterised by making envelopes or bags with structural provision at the base for thickness of contents, from sheets or blanks, e.g. from flattened tubes, the longitudinal axes of the envelopes or bags being perpendicular to the direction in which the sheets or blanks are fed**
- 35/02 . and having means for feeding or positioning sheets or blanks
- 35/14 . and having means for cutting, e.g. perforating, punching, slitting, trimming
- 35/26 . and having means for folding sheets or blanks
- 35/60 . and having means for uniting opposed surfaces or edges, or for taping
- 35/74 . and having means for effecting auxiliary operations
- 37/00 Machinery characterised by making envelopes or bags with structural provision at the base for thickness of contents, from webs, e.g. from tubular webs** (machinery characterised by cutting sheets or blanks from webs and working them to form such envelopes or bags 31/00)
- 37/02 . and having means for feeding or positioning webs
- 37/14 . and having means for cutting, e.g. perforating, punching, slitting, trimming
- 37/26 . and having means for folding webs
- 37/60 . and having means for uniting opposed surfaces or edges, or for taping
- 37/74 . and having means for effecting auxiliary operations
- 39/00 Machinery characterised by making lined envelopes or bags**
- 39/02 . and having means for feed or positioning sheets, blanks, or webs
- 39/14 . and having means for cutting, e.g. perforating, punching, slitting, trimming
- 39/26 . and having means for folding sheets, blanks or webs
- 39/60 . and having means for uniting opposed surfaces or edges, or for taping
- 39/74 . and having means for effecting auxiliary operations
- 41/00 Machinery characterised by making envelopes or bags of other specific form or construction**
- 41/02 . and having means for feeding or positioning sheets, blanks, or webs
- 41/14 . and having means for cutting, e.g. perforating, punching, slitting, trimming
- 41/26 . and having means for folding sheets, blanks or webs
- 41/60 . and having means for uniting opposed surfaces or edges, or for taping
- 41/74 . and having means for effecting auxiliary operations

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**43/00 Machinery characterised by making containers by shaping, otherwise than by folding, sheet material under pressure**

**45/00 Machinery characterised by making containers having corrugated or pleated walls**

**47/00 Hand tools for making envelopes, bags, boxes or cartons**

47/02 . for making envelopes or bags without preshaped bottoms

47/04 . for making envelopes or bags with preshaped bottoms

**49/00 Machinery, accessories or processes not provided for in groups 1/00 to 47/00** (forms or constructions of boxes, cartons, envelopes or bags [B 65 D](#)) [2]

**Note**

Processes dependent on the use of specific machinery provided for in groups 1/00 to 45/00 are classified in those groups. [2]

49/02 . for making boxes or cartons

49/04 . for making envelopes or bags

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