

B31F

MECHANICAL WORKING OR DEFORMATION OF PAPER OR CARDBOARD (cutting, trimming, in general B26; incising, scoring, in general B26D3/08; making layered products not composed wholly of paper or cardboard B32B; multi-ply material of paper or cardboard, its manufacture D21H)

References relevant to classification in this subclass

This subclass/group does not cover:

Places in relation to which this subclass is residual:

Making boxes, cartons, envelopes or bags	B31B
Making wound paper articles	B31C
Making other paper articles	B31D

B31F 1/00

Mechanical deformation of paper or cardboard without removing material including combined deformation and laminating (embossing combined with application of ink, type marking presses, selective embossing machines B41F, B41J, B41K, B41M; machines or apparatus for embossing decorations or marks B44B5/00; artists hand tools for embossing B44B11/04; producing decorative effects by processes for stamping ornamental designs on surfaces B44C1/24; mechanical deformation during paper or board making, kinds of paper or board D21)

Informative references

Attention is drawn to the following places, which may be of interest for search:

Folding thin material	B65H 45/00
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B31F 1/008

[N: Shaping of tube ends, e.g. flanging, belling, closing, rim-rolling, corrugating; Fixing elements to tube ends]

Informative references

Attention is drawn to the following places, which may be of interest for search:

Making cylindrical boxes with separate bottoms	B31B 2217/064
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B31F 1/0096

[N: Lining or sheathing (folding the edge of the sheathing B31F1/0016, B31F1/0029)]

Informative references

Attention is drawn to the following places, which may be of interest for search:

Making lined boxes	B31B 2217/0038
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B31F 1/07

Embossing, [N: i.e. producing impressions formed by locally deep-drawing, e.g. using rolls provided with complementary profiles] ([N: B31F1/128 takes precedence;] corrugating B31F1/20)

Special rules of classification within this group

Classification in deep indexing scheme [B31F 2201/07](#) is mandatory.

B31F 1/08

Creasing (corrugating B31F1/20; zig-zag folding B65H45/20) [N: (combined with folding B31F1/0012, B31F1/0022; grooving by cutting B26D3/06, B26D3/08; by milling grooves B23C3/30; of plastics material B29C53/06)]

Informative references

Attention is drawn to the following places, which may be of interest for search:

Making creases during box or bag making	B31B 2201/25 , B31B 2219/25
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B31F 1/12

Crêping paper, [N: i.e. providing paper with small irregular crinkles; Making paper elastic in all directions]

Informative references

Attention is drawn to the following places, which may be of interest for search:

Paper making	D21F 11/00
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B31F 1/20

Corrugating; Corrugating combined with laminating to other paper or cardboard layers ([N: corrugating sheet metal B21D13/00; corrugating plastics material B29C53/22;] corrugating veneer B27D)

Informative references

Attention is drawn to the following places, which may be of interest for search:

Zig-Zag folders	B65H 45/20 , B65H 45/228
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B31F 1/2813

[N: Making corrugated cardboard of composite structure, e.g. comprising two or more corrugated layers]

Informative references

Attention is drawn to the following places, which may be of interest for search:

Making cellular structures by cutting corrugated webs longitudinally into strips, piling these strips and uniting them	B31D 3/007
Laminated products characterised by a layer comprising a deformed thin sheet , e.g. corrugated, crumpled	B32B 3/28

B31F 1/36

Moistening and heating webs to facilitate mechanical deformation and drying deformed webs[N: (during corrugating B31F1/28)]

Definition statement

This subclass/group covers:
E.g. impregnating.

References relevant to classification in this group

This subclass/group does not cover:

Moistening, drying during making of corrugated web having transverse corrugations	B31F 1/2845
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B31F 5/00

Attaching together paper or cardboard sheets, strips, or webs;[N: or other preformed paper articles joining by rim-rollingB31F1/0041,B31F1/009; closing tube ends by inserting an elementB31F1/00C4D, making boxesB31B]Reinforcing edges of paper or cardboard(means for applying adhesive or glueB05C; stapling in box or like makingB31B; attaching the replacement web to the expiring web during web-roll changingB65H19/18; apparatus for splicing webs during handlingB65H21/00)

Informative references

Attention is drawn to the following places, which may be of interest for search:

Making layered products	B32B 37/00
Splicing webs	B65H 21/00

B31F 7/00

Processes for working paper not otherwise provided for

Definition statement

This subclass/group covers:

Processes for working paper not provided for in [B31B 1/00](#), [B31C 1/00](#) to [B31C 13/00](#), [B31D 1/00](#) to [B31D 5/00](#), [B31F 1/00](#) to [B31F 5/00](#).