

## B42C

**BOOKBINDING (cutting or perforating machines, devices or tools B26; folding sheets or webs B31F; ornamenting books B44)**

### Definition statement

*This subclass/group covers:*

Particular operations and machines peculiar to bookbinding for obtaining books as final products:

- providing or preparing book blocks and bookbinding cases as input material for bookbinding
- applying glue or adhesive
- casing-in, .i.e. applying covers to fillings
- jacketing books
- rebinding books
- multi-step processes for making books
- residual operations for bookbinding not provided for in other places

Some operations and machines similar to bookbinding operations for obtaining related final products:

- making booklets, pads or form sets from multiple webs
- manufacturing covers of filing appliances, e.g. of loose-leaf binders or suspended filing appliances

### Relationship between large subject matter areas

Binding and bookbinding

Subclass [B42B](#) covers binding, especially stitching, processes for permanently attaching together sheets, quires or signatures by which book blocks can be obtained.

### Informative references

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

Cutting or perforating operations, machines or devices	<a href="#">B26D</a> , <a href="#">B26F</a>
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Folding sheets or webs	<a href="#">B31F 1/00</a> , <a href="#">B65H 45/00</a>
Apparatus for artistic work	<a href="#">B44B</a>
Processes for decorating in general	<a href="#">B44C</a> , <a href="#">B44D 5/00</a>

## **B42C 1/00**

**Collating or gathering sheets combined with processes for permanently attaching together sheets or signatures or for interposing inserts (collating or gathering sheets or signatures without permanently attaching them together B65H39/00 )**

### **Definition statement**

*This subclass/group covers:*

Gathering and collating are typical for bookbinding in order to arrange the printed pages in a predetermined sequence to obtain the book block.

Gathering sheets means associating and registering folded printed sheets in the correct sequence to obtain a folded quire as a section of a book, collating means associating and registering sections, e.g. folded signatures or folded quires, in the proper sequence for the book block.

Gathering covers as well associating and registering flat or folded sheets to a single copy of a publication, e.g. for subsequent stapling.

Collating covers as well examining the associated section or set of sections, after gathering but before attaching, for proper sequence, e.g. by examining step marks on the back of the folded sheets.

Interposing inserts means inserting separately printed flat or folded sheets, e.g. of different paper or print quality for advertisement, into the gathered or collated main publication for becoming a permanent part of the final product.

### **Informative references**

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

Permanently attaching together sheets, quires, or signatures	<a href="#">B42B</a>
Supports or magazines for piles from which sheets are to be separated; Separating sheets from piles; Feeding sheets separated from piles; Feeding	<a href="#">B65H 1/00</a> - <a href="#">B65H 5/00</a>

sheets to machines	
Delivering or advancing sheets from machines; Advancing sheets to or into piles; Pile receivers; Forming counted batches in delivery pile or stream of sheets	<a href="#">B65H 29/00</a> - <a href="#">B65H 33/00</a>
Article or web delivery apparatus incorporating devices for securing together articles or webs, e.g. by adhesive, stitching or stapling	<a href="#">B65H 37/04</a>
Associating, collating, or gathering sheets, quires or signatures without permanently attaching them together, e.g. from single or several sources, like piles or delivery streams	<a href="#">B65H 39/00</a>
Devices for collating and binding sets of sheets, e.g. by stapling, gluing, in electrographic, e.g. xerographic, printing machines	<a href="#">G03G 15/00</a>

## **B42C 3/00**

### **Making booklets, pads, or form sets from multiple webs**

#### **Definition statement**

*This subclass/group covers:*

Involves associating, registering and cutting one or more webs in multiple layers, usually printed, to obtain sets of flat or folded sheets in a correct predetermined sequence as a single copy of the final product, e.g. of a booklet, for simultaneous or subsequent binding.

#### **Informative references**

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

Printing apparatus for printing books, manifolding sets or calendars	<a href="#">B41F 17/02</a> , <a href="#">B41F 17/04</a>
Manifolding pads or books	<a href="#">B41L 1/24</a>
Sheets united without binding to form	<a href="#">B42D 5/00</a>

pads or blocks, e.g. form sets or calendar blocks	
Associating sheets from a single source, e.g. to form a writing pad	<a href="#">B65H 39/10</a>
Associating two or more webs	<a href="#">B65H 39/16</a>

## B42C 5/00

### Preparing the edges or backs of leaves or signatures for binding

#### Definition statement

*This subclass/group covers:*

Preparing the edges or backs of a set of flat or folded sheets or signatures, usually a book block or fillings, prior to associating it with a case or cover.

#### Informative references

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

Loose leaves modified for binding	<a href="#">B42D 13/00</a>
Cutting of the book block	<a href="#">B26D</a>
Decoration of the edges of book block, e.g. by colouring or gold foil	<a href="#">B42D 7/00</a>

## B42C 7/00

### Manufacturing bookbinding cases or covers of [N: books or] loose-leaf binders (book covers B42D3/00 )

#### Definition statement

*This subclass/group covers:*

Bookbinding cases are usually manufactured as a separate unit to be associated with the fillings of a book.

Cases for hard cover books, or covers for loose-leave binders, are typically produced by printing a rectangular sheet of paper, cloth or leather, known as the cover material, and subsequently gluing the cover material to a pair of

rigid panels and a spine.

Soft covers, e.g. for books, folders ([B42F 7/00](#) etc.) or suspension files ([B42F 15/00](#)), are made from foldable sheet material, e.g. as unitary cover from a single printed blank of cover material.

### Informative references

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

Joint-creasing equipment for bookbinding	<a href="#">B42C 13/00</a>
Book covers	<a href="#">B42D 3/00</a>
Covers of loose-leaf binders	<a href="#">B42F 13/00</a>
Covers of suspended files	<a href="#">B42F 15/04</a>

## B42C 9/00

### Applying glue or adhesive peculiar to bookbinding

#### Definition statement

*This subclass/group covers:*

Methods and devices for applying adhesive, e.g. glue or paste,

to obtain adhesively bound stacks of sheets or book blocks, e.g. by applying adhesive to the back of a stack of sheets or subsequently to individual sheets prior or during stacking,

to join tape or covers by adhesive to a stack of sheets or a book block, e.g. by applying adhesive to the tape or cover, or by activating adhesive pre-coated on a tape or cover,

to bond sheets together or a cover with a stack of sheets, e.g. by fusing plastic sheet or cover material or by fusing a binding material, e.g. a pre-applied binding agent or a material added to fill cavities in the sheets,

for securing strips, ribbons or end papers to book blocks, e.g. back linings, bookmarkers, headbands or guards,

for otherwise applying adhesive peculiar to bookbinding.

### Informative references

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

Permanently attaching together sheets, quires, or signatures by adhesive or welding	<a href="#">B42B 5/00</a>
Devices for pasting common to machines for permanently attaching together sheets, quires, or signatures, or for permanently attaching objects thereto	<a href="#">B42B 9/06</a>
Machines or equipment for attaching end papers to book blocks and casing-in	<a href="#">B42C 11/04</a>
Machines or equipment for casing-in by welding plastic materials	<a href="#">B42C 11/06</a>

## **B42C 9/0006**

**[N: Applying adhesive to a stack of sheets]**

### **Definition statement**

*This subclass/group covers:*

Methods and devices to apply adhesive to a collated or gathered stack of sheets for attaching them together, for uniting it with a cover, or both. Usually, the adhesive is applied by a roller, whereby the roller is moved along a stack in a rest position or the stacks are continuously moved along a stationary applicator, as in industrial perfect binders.

### **Informative references**

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

Binding sets of sheets, e.g. by gluing, applied in electro-photographic printers	<a href="#">G03G 15/6541</a>
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## **B42C 9/0093**

**[N: Fusing or welding sheets together]**

### **Informative references**

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

Joining, e.g. welding, plastic sheets by heating, with or without pressure	<a href="#">B29C 65/02</a>
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## **B42C 9/02**

**for securing back linings, strips, ribbons or headbands**

### **Informative references**

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

Machines or equipment for attaching end papers to book blocks and casing-in	<a href="#">B42C 11/045</a>
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## **B42C 11/00**

**Casing-in**

### **Definition statement**

*This subclass/group covers:*

Associating a book block or other fillings with a bookbinding case or cover.

### **Informative references**

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

Devices for pasting common to machines for permanently attaching together sheets, quires, or signatures, or for permanently attaching objects thereto	<a href="#">B42B 9/06</a>
Applying glue or adhesive peculiar to bookbinding	<a href="#">B42C 9/00</a>
Books or other bound products in which the fillings and covers are connected by end papers, secured integrally or united by other means	<a href="#">B42D 1/02</a> - <a href="#">B42D 1/06</a>
Covers or strips provided with adhesive for binding	<a href="#">B42D 3/00</a>

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## B42C 13/00

**Bookbinding presses (general features of presses B30B);  
Joint-creasing equipment for bookbinding; Drying or setting  
devices for books**

### Definition statement

*This subclass/group covers:*

The machines, devices or equipment covered by this group is particularly used for treating, e.g. shaping, the book obtained from casing-in operations.

### Informative references

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

General features of presses	<a href="#">B30B</a>
Creasing the back of covers during the manufacture thereof	<a href="#">B42C 7/00</a>

## B42C 15/00

**Jacketing books**

### Definition statement

*This subclass/group covers:*

Applying a protective book jacket to a bound book, typically an attractive detachable paper cover.

Covers as well applying protective adhesive or heat sealable foils and inserting books into protective cases.

### Informative references

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

Joining sheets or webs to each other or to substantially flat surfaces	<a href="#">B29C 65/00</a>
Protective jackets for books	<a href="#">B42D 3/04</a>
Protective cases for books	<a href="#">B42D 3/18</a>

Packaging articles in general	<a href="#">B65B</a>
Packaging elements or packages in general	<a href="#">B65D</a>

## B42C 17/00

### Rebinding books

#### Definition statement

*This subclass/group covers:*

Replacement of book covers or fillings of bound books.

Reuse of book covers or fillings for bookbinding.

#### Informative references

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

Files with adhesive strips for mounting papers	<a href="#">B42D 1/10</a>
Loose book covers	<a href="#">B42D 3/04</a>

## B42C 19/00

### Multi-step processes for making books

#### Definition statement

*This subclass/group covers:*

Bookbinding processes comprising a plurality of operations which are not fully covered by a single other group of this subclass and machines performing such sequences of operations. The format of the starting printing substrate (single sheets, signatures, webs) determines the steps required to obtain a book block, especially the type of collating operation.

The multi-step processes comprise operations covered by other places of subclass [B42C](#) as a process step and may include as well bookbinding steps not covered by this subclass, such as folding ([B65H 45/00](#), [B31F 1/00](#)), collating ([B65H 39/00](#)), stitching with thread ([B42B](#)), cutting ([B26D](#)) or decorating (B44), as well as particular handling and conveying steps therefor ([B65H](#), [B65G](#)).

They may further comprise printing steps adapted for obtaining books, for forme printing ([B41F 17/02](#)), for electrographic printing ([G03G](#)) or selective printing ([B41J](#)), including the forme preparation ([B41C](#)) or the preprocessing of the content ([G06K 15/00](#), [G06F 3/12](#), [H04N 1/00](#)).

### Informative references

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

Collating or gathering sheets combined with processes permanently attaching together sheets or signatures or for interposing inserts	<a href="#">B42C 1/00</a>
Manufacturing bookbinding cases	<a href="#">B42C 7/00</a>
Applying glue or adhesive for bookbinding and subsequently applying a cover	<a href="#">B42C 9/00</a>
Making booklets, pads, or form sets from multiple webs	<a href="#">B42C 3/00</a>
Conveying in general	<a href="#">B65G</a>

### **B42C 99/00**

**Subject matter not provided for in other groups of this subclass**