

D21B

FIBROUS RAW MATERIALS OR THEIR MECHANICAL TREATMENT

Definition statement

This subclass/group covers:

Preparation of fibrous raw materials (like wood, rags, waste paper, pulp bales) and their mechanical treatment to obtain mechanical pulp, particular for papermaking purposes and production of fibre board, cutting raw materials into small particles, pretreatment of raw materials before pulp preparation, pulp preparation by mechanical defibration (for example by grinding), pulpers and mixers for pulps, de-inking devices.

Relationship between large subject matter areas

Even if the focus is clearly on the mechanical side of pulp preparation, also processes including chemical aspects are classified herein, as long as the nature of the process is to be considered as mainly mechanical. Otherwise, [D21C](#) is the appropriate subclass.

References relevant to classification in this subclass

This subclass/group does not cover:

Removal of bark	B27L
Disintegrating peat	C10F 7/02
Pulp or chip refiners, beaters, methods of refining or beating	D21D

Informative references

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

Disintegration in mills	B02C
Dry sorting of waste	B07B
Flotation in general	B03D
Milling devices in general	B02C
Disposal of solid waste	B09B

Manufacture of articles made from particles or fibers consisting of wood or like organic material by dry processes	B27N
Fiberboard, manufacture of articles from cellulosic fibrous suspensions	D21J
Flotation of white water, recovering fibers from suspensions	D21F 1/70
Mechanical treatment of fibrous material to obtain fibers for spinning	D01B
Production of chemical pulps, pretreatments or processes of mainly chemical nature	D21C

Special rules of classification within this subclass

Subgroups and main group

If a document concerns embodiments which are covered by several subgroups dependent on a higher hierarchy group, the following rules apply:

- the specific technical information relevant for some of the subgroups is classified in all said subgroups;
- if relevant, the structural association (e.g. the combination) of the elements covered by the subgroups is classified in the head group;
- analogously, if generic technical information common to all of the subgroups is disclosed and only schematic embodiments of the specific subgroup embodiments are represented, the documents is classified in the head group only.

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Fibrous raw materials or their mechanical treatment

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Pretreatment of the raw materials by chemical or physical means (removal of bark B27L)

Definition statement

This subclass/group covers:
Steaming or heating of wood chips.

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[N: by chemical means]

Definition statement

This subclass/group covers:
Impregnation of wood chips with chemical or biological (enzymatic) substances.

Informative references

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

Chemical aspects of pulp preparation	D21C
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Defibrating by other means

Definition statement

This subclass/group covers:
Defibrating between cooperating rotating screw members in drums.

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[N: using microwaves]

Definition statement

This subclass/group covers:
Ultrasound treatments.