

## D21G

### **CALENDERS; ACCESSORIES FOR PAPER-MAKING MACHINES (winders or rewinders for finished products, means for adjustment of wrinkles or lateral extensions B65H)**

#### **Definition statement**

*This subclass/group covers:*

Calenders, smoothing apparatus.

Rolls for calenders, controlled deflection rolls, doctors, safety devices for paper machinery, damping devices, paper making control systems, devices for threading web tails through a paper machine.

Coating devices in combination with calenders or other sections in a paper machine.

#### **Informative references**

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

Rolls for rolling metal	<a href="#">B21B 27/00</a>
Registering, tensioning, smoothing or guiding webs	<a href="#">B65H 23/00</a>
Methods and devices for coating paper webs in general	<a href="#">D21H</a>
Rolls in general	<a href="#">F16C 13/00</a>

#### **Special rules of classification within this subclass**

Subgroups and head groups.

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.

## Glossary of terms

*In this subclass/group, the following terms (or expressions) are used with the meaning indicated:*

In this subclass, the following terms are used with the meaning indicated:

Section	portion of a paper production machine effecting a certain process step, for example forming, pressing, drying, calendering, coating, ...;
Doctor	device or cleaning the surface of a band, cylinder or roll or for metering a coating substance on the surface of a web

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**Calenders (if restricted to the treatment of particular materials see the relevant class, e.g. B29C43/24 , D06); Smoothing apparatus**

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### Doctors

#### Definition statement

*This subclass/group covers:*

Doctor devices for paper machines in general.

#### Informative references

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

Application blades in general	<a href="#">B05C 11/04</a>
Doctors for crêping	<a href="#">B31F 1/14</a>
Doctors for printing machines	<a href="#">B41F 9/10</a>
Doctors for coaters	<a href="#">D21H 23/34</a> , <a href="#">D21H 25/10</a>

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### Safety devices

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### Damping devices

#### Definition statement

*This subclass/group covers:*

Damping devices for paper machines, i.e. devices for applying moisture in form of water or steam.

#### References relevant to classification in this group

*This subclass/group does not cover:*

Damping devices for printing machines	<a href="#">B41F 7/24</a>
Steam blow boxes arranged in the paper machine	<a href="#">D21F 7/008</a>
Web conditioning devices arranged in calenders	<a href="#">D21G 1/0093</a>

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### Other accessories for paper-making machines

#### Definition statement

*This subclass/group covers:*

Devices that can be used e.g. for controlling or measuring parameters, not essential for the technical functioning of the machine; Control systems and methods; Coating devices in combination with paper machine sections;

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### [N: Paper-making control systems]

#### Informative references

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

Sensor rolls	<a href="#">G01L 5/00</a>
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Fault detection	<a href="#">G01N 21/89</a>
Measuring paper sheets	<a href="#">G01N 33/34</a>

## **D21G 9/009**

**[N: Apparatus for glaze-coating paper webs]**

### **Definition statement**

*This subclass/group covers:*

Coating processes using two rolls rotating at different speed.

Complete papermaking machines (i.e. at least two sections in combination) comprising a coating section in combination with other paper machine sections, e.g. calendering or drying section.

### **Informative references**

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

Apparatus for coating paper webs in general	<a href="#">D21H 23/00</a>
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