

**B01B****BOILING; BOILING APPARATUS {; EVAPORATION; EVAPORATION APPARATUS}****Definition statement**

*This place covers:*

Documents where liquid evaporation or boiling without separation takes place.

**Relationships with other classification places**

Semi-conductor fabrication involving evaporation step process is classified in [H01L 21/00](#).

Coating by vacuum evaporation is classified in [C23C 14/00](#)

**References****Informative references**

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

Feeding chemical reactors, in particular reformer	<a href="#">B01J 8/0278</a> , <a href="#">B01J 19/0093</a>
Selective catalytic reduction [SCR]	<a href="#">F01N 3/2066</a>

**B01B 1/00****Boiling; Boiling apparatus for physical or chemical purposes {; Evaporation in general}****Definition statement**

*This place covers:*

- Boiling; Boiling apparatus for physical or chemical purposes, e.g. preventing foaming or preventing bumping
- Evaporation

**References****Application-oriented references**

*Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

Concentration of starch suspensions	<a href="#">C08B 30/08</a>
Evaporators or boiling pans specially adapted for sugar juices; Evaporating or boiling sugar juices	<a href="#">C13B 25/00</a>

**Informative references**

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

Steam generation	<a href="#">F22</a>
Domestic boilers	<a href="#">F24</a>

## B01B 1/005

{Evaporation for physical or chemical purposes; Evaporation apparatus therefor, e.g. evaporation of liquids for gas phase reactions}

### Definition statement

*This place covers:*

Evaporation or evaporation apparatus for physical or chemical purposes, i.e. transformation of a liquid into gaseous form to be introduced in a further step (mainly reaction), e.g. evaporation of liquids for gas phase reactions or evaporator for organic materials.

### Relationships with other classification places

In [B01B 1/00](#) there is no separation of components, while in [B01D 1/00](#) there is separation of components.

### References

#### Informative references

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

Evaporation for separation	<a href="#">B01D</a>
Chemical vapour deposition	<a href="#">C23C</a>
Cooling by evaporation	<a href="#">F01P 9/02</a>
Evaporation of fuels to be fed	<a href="#">F23D</a>
Refrigeration by evaporation	<a href="#">F25B</a>
Drying by evaporation	<a href="#">F26B</a>
Evaporation for preparing samples for analysis	<a href="#">G01N</a>

### Glossary of terms

*In this place, the following terms or expressions are used with the meaning indicated:*

evaporation	liquid vaporisation that is a surface phenomenon that occurs at any temperature
boiling	liquid vaporisation that is a bulk phenomenon that only occurs when the temperature of the liquid is above the boiling point of the liquid

## B01B 1/02

### Preventing foaming

### References

#### Informative references

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

Preventing foaming during degasification	<a href="#">B01D 19/02</a>
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## B01B 1/08

### Boiling apparatus provided with reflux condenser

#### References

##### *Informative references*

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

Condensation in separation	<a href="#">B01D 5/0063</a>
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#### Glossary of terms

*In this place, the following terms or expressions are used with the meaning indicated:*

reflux condenser	condenser in which the hot solvent vapours of a liquid being heated are cooled and allowed to drip back into the boiling apparatus
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