

B01B

BOILING; BOILING APPARATUS; {EVAPORATION; EVAPORATION APPARATUS}

Definition statement

This place covers:

Documents where evaporation of liquid 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	B01J 8/0278 , B01J 19/0093
selective catalytic reduction (SCR)	F01N 3/2066

B01B 1/00

Boiling; Boiling apparatus for physical or chemical purposes (preparation of starch [C08B 30/00](#); sugar industry [C13](#); steam generation [F22](#); domestic boilers [F24](#)){; Evaporation in general}

Definition statement

This place covers:

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

References

Informative references

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

preparation of starch	C08B 30/00
boiling in sugar industry	C13
boiling for steam generation	F22
domestic boilers	F24

B01B 1/005

{Evaporation or evaporation apparatus for physical or chemical purposes, e.g. evaporation of liquids for gas phase reactions (separation by evaporation [B01D](#); evaporation in chemical vapor deposition or similar processes [C23C](#); cooling by evaporation [F01P 9/02](#); evaporation of fuels to be fed to combustion apparatus, e.g. burners [F23D](#); refrigeration involving evaporation [F25B](#); drying involving evaporation [F26B](#); evaporation for preparing samples for analysis [G01N](#))}

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, evaporator for organic materials

Relationships with other classification places

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

References

Informative references

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

evaporation for separation	B01D
chemical vapour deposition	C23C
cooling by evaporation	F01P 9/02
evaporation of fuels to be fed	F23D
refrigeration by evaporation	F25B
drying by evaporation	F26B
evaporation for preparing samples for analysis	G01N

Glossary of terms

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

Evaporation	surface phenomenon of a liquid occurring at any temperature
Boiling	phenomenon happening throughout the bulk of the a liquid. It only happens when the temperature is above the boiling point of that substance

B01B 1/08**Boiling apparatus provided with reflux condenser****References*****Limiting references***

This place does not cover:

Condensation in separation	B01D 5/0063
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Glossary of terms

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

Reflux condenser	Condenser where the hot solvent vapors of a liquid being heated, are cooled and allowed to drip back
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