

C12F

RECOVERY OF BY-PRODUCTS OF FERMENTED SOLUTIONS (removal of yeast from wine or sparkling wine [C12G 1/08](#)); DENATURED ALCOHOL; PREPARATION THEREOF

Definition statement

This place covers:

Recovery of by-products of fermented solutions;

Preparation of denatured alcohol;

Denatured alcohol, per se.

Relationships with other classification places

While [C12F](#) covers the recovery of by-products of fermented solutions, [B01D](#) covers separation processes in general, such as evaporation, distillation, crystallization, filtration, absorption, adsorption, chromatography, ion exchange, etc.

Noteworthy, there are other classification symbols that have a general relationship with [C12F](#), such as [C12C](#) (brewing of beer), [C12G](#) (wine, sparkling wine or other alcoholic beverages) and [C12P](#) (fermentation processes to synthesize a desired chemical compound).

Since some of the by-products of fermented solutions may be used to produce human or animal food, the main groups [A23L 5/00](#) - [A23L 35/00](#), [A23K 10/00](#) and [A23K 30/00](#) might be of interest for search.

In this subclass, it is desirable to add the indexing codes of subclass [C12R](#).

References

Limiting references

This place does not cover:

Removal of yeast from wine or sparkling wine	C12G 1/08
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Informative references

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

Feeding-stuffs specially adapted for animal and their methods of production	A23K 10/38
Preparation, treatment or modification of the properties of foods or foodstuffs	A23L 7/104 , A23L 7/25 , A23L 11/70 , A23L 27/24
Separation processes and apparatus in general	B01D
Preparation of other alcoholic beverages which are not wine or beer	C12G 3/02 , C12G 3/08
Removal of alcohol from alcoholic beverages to obtain alcohol-free or low-alcohol beverages	C12H 3/00
Preparation of ethanol for non-beverage purposes	C12P 7/06

Glossary of terms

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

Denatured alcohol	Ethanol that has additives to make it inedible (poisonous) in order to prevent human consumption. Denatured alcohol permits legitimate use and manufacture of ethanol, since its manufacturing process creates an ethanol-containing solution that is not suitable for drinking, but it is similar to ethanol for most purposes.
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Synonyms and Keywords

In patent documents, the following words/expressions are often used as synonyms:

- "alcohol" and "spirits"
- "denatured alcohol" and "methylated spirits"

C12F 3/00

Recovery of by-products

Definition statement

This place covers:

Recovery of by-products of only fermented solutions, e.g. from beer, wine, and distillery slops.

The recovered (secondary) by-product may be obtained from a (primary) by-product of the preparation of a fermented solution.

C12F 3/02

of carbon dioxide

Definition statement

This place covers:

Recovery of carbon dioxide as by-product of fermented solutions.

References

Informative references

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

Carbon dioxide	C01B 32/50
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C12F 3/04

Recovery of volatile fermentation products from carbon dioxide

Definition statement

This place covers:

Recovery of volatile fermentation products from carbon dioxide obtained as by-product of fermented solutions.

C12F 3/06

from beer and wine ([C12F 3/02](#) takes precedence; removal of yeast [C12G 1/08](#))

Definition statement

This place covers:

Recovery of by-products of fermented solutions obtained in beer brewing or wine making.

References**Limiting references**

This place does not cover:

Recovery of carbon dioxide as by-product of fermented solutions	C12F 3/02
Removal of yeast ("degorgeage")	C12G 1/08

C12F 3/08

Recovery of alcohol from press residues or other waste material (from carbon dioxide [C12F 3/04](#))

Definition statement

This place covers:

Recovery of alcohol from press residues or other waste material obtained in beer brewing or wine making.

References**Limiting references**

This place does not cover:

Recovery of alcohol from carbon dioxide	C12F 3/04
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C12F 3/10

from distillery slops

Definition statement

This place covers:

Recovery of by-products from distillery slops, i.e. from the residue remaining after distillation of fermented solutions.

References**Informative references**

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

Preparation of distilled alcoholic beverages	C12H 6/02
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C12F 5/00

Preparation of denatured alcohol

Definition statement

This place covers:

Denatured alcohol and preparation methods therefore.