

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1210

DATE: JANUARY 1, 2022

PROJECT RP0735

The following classification changes will be effected by this Notice of Changes:

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Symbols New:	C12P	7/6431
	C12P	7/6432
	C12P	7/6434
	C12P	7/6458
Titles Changed:	C12P	7/40
	C12P	7/62
	C12P	7/625
	C12P	7/6409
	C12P	7/6418
	C12P	7/6427
	C12P	7/6436
	C12P	7/6445
	C12P	7/6454
	C12P	7/6463
	C12P	7/6472
	C12P	7/6481
	C12P	7/649
Warnings New:	C12P	7/62
	C12P	7/6427
	C12P	7/6431
	C12P	7/6432
	C12P	7/6434
	C12P	7/6436
	C12P	7/6445
	C12P	7/6454
	C12P	7/6458
	C12P	7/6472
	C12P	7/6481
	C12P	7/649
DEFINITIONS:		
Definitions New:	C12P	7/62
Definitions Modified:	C12P	7/64

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This Notice of Changes includes the following *[Check the ones included]:*

1. CLASSIFICATION SCHEME CHANGES

- A. New, Modified or Deleted Group(s)
- B. New, Modified or Deleted Warning(s)
- C. New, Modified or Deleted Note(s)
- D. New, Modified or Deleted Guidance Heading(s)

2. DEFINITIONS

- A. New or Modified Definitions (Full definition template)
- B. Modified or Deleted Definitions (Definitions Quick Fix)

3. REVISION CONCORDANCE LIST (RCL)

4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

5. CHANGES TO THE CROSS-REFERENCE LIST (CRL)

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS C12P--FERMENTATION OR ENZYME-USING PROCESSES TO SYNTHESISE A DESIRED CHEMICAL COMPOUND OR COMPOSITION OR TO SEPARATE OPTICAL ISOMERS FROM A RACEMIC MIXTURE {(brewing of beer C12C; producing vinegar C12J; producing specific peptides or proteins C07K; producing enzymes C12N 9/00; DNA or RNA concerning genetic engineering, vectors, e.g. plasmids, or their isolation, preparation or purification C12N 15/00; measuring or testing processes involving enzymes or microorganisms C12Q; measuring or testing processes involving nucleic acid amplification reactions C12Q 1/6844; fermentation processes to form a food composition, A21 or A23; compounds in general, see the relevant compound class, e.g. C01, C07)}

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	C12P 7/40	1	containing a carboxyl group {including Peroxycarboxylic acids }	
T	C12P 7/62	1	Carboxylic acid esters	
T	C12P 7/625	2	Polyesters of hydroxy carboxylic acids	
U	C12P 7/64	1	Fats; Fatty oils; Ester-type waxes; Higher fatty acids, i.e. having at least seven carbon atoms in an unbroken chain bound to a carboxyl group; Oxidised oils or fats	
M	C12P 7/6409	2	Fatty acids	
M	C12P 7/6418	3	by hydrolysis of fatty acid esters	
C	C12P 7/6427	3	Polyunsaturated fatty acids [PUFA], i.e. having two or more double bonds in their backbone	C12P7/6427, C12P7/6431, C12P7/6432, C12P7/6434
N	C12P 7/6431	4	Linoleic acids [18:2[n-6]]	
N	C12P 7/6432	4	Eicosapentaenoic acids [EPA]	
N	C12P 7/6434	4	Docosahexenoic acids [DHA]	
C	C12P 7/6436	2	Fatty acid esters	C12P7/62, C12P7/625, C12P7/6436
C	C12P 7/6445	3	Glycerides	C12P7/6445, C12P7/6458
C	C12P 7/6454	4	by esterification	C12P7/6454, C12P7/6458
N	C12P 7/6458	4	by transesterification, e.g. interesterification, ester interchange, alcoholysis or acidolysis	
M	C12P 7/6463	4	obtained from glyceride producing microorganisms, e.g. single cell oil	
C	C12P 7/6472	4	containing polyunsaturated fatty acid [PUFA] residues, i.e. having two or more double bonds in their backbone	C12P7/6458, C12P7/6472
C	C12P 7/6481	4	Phosphoglycerides (phosphoglycerides having carboxylic acids with less than seven carbon atoms C12P 7/62)	C12P7/6458, C12P7/6481
C	C12P 7/649	3	Biodiesel, i.e. fatty acid alkylesters	C12P7/6458, C12P7/649

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*N = new entries where reclassification into entries is involved; C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; T = existing entries with enlarged file scope, which receive documents from C or D entries, e.g. when a limiting reference is removed from the entry title; M = entries with no change to the file scope (no reclassification); D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed; U = entries that are unchanged.

NOTES:

- **No {curly brackets} are used for titles in CPC only subclasses, e.g. C12Y, A23Y; 2000 series symbol titles of groups found at the end of schemes (orthogonal codes); or the Y section titles. The {curly brackets} are used for 2000 series symbol titles found interspersed throughout the main trunk schemes (breakdown codes).
- U groups: it is obligatory to display the required “anchor” symbol (U group), i.e. the entry immediately preceding a new group or an array of new groups to be created (in case new groups are not clearly subgroups of C-type groups). Always include the symbol, indent level and title of the U group in the table above.
- All entry types should be included in the scheme changes table above for better understanding of the overall scheme change picture. Symbol, indent level, and title are required for all types.
- “Transferred to” column must be completed for all C, D, F, and Q type entries. F groups will be deleted once reclassification is completed.
- When multiple symbols are included in the “Transferred to” column, avoid using ranges of symbols in order to be as precise as possible.
- For administrative transfer of documents, the following text should be used: “< administrative transfer to XX>”, “<administrative transfer to XX and YY simultaneously>”, or “<administrative transfer to XX, YY, ...and ZZ simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be “additional information”.
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations “ADD” or “INV”: <administrative transfer to XX ADD>, <administrative transfer to XX INV>, or < administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the “D” entries of 2000-series or Y-series groups may not require a destination (“Transferred to”) symbol, however it is required to specify “<no transfer>” in the “Transferred to” column for such cases.
- For finalisation projects, the deleted “F” symbols should have <no transfer> in the “Transferred to” column.
- For more details about the types of scheme change, see CPC Guide.

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B. New, Modified or Deleted Warning(s)

SUBCLASS C12P--FERMENTATION OR ENZYME-USING PROCESSES TO SYNTHESISE A DESIRED CHEMICAL COMPOUND OR COMPOSITION OR TO SEPARATE OPTICAL ISOMERS FROM A RACEMIC MIXTURE {(brewing of beer C12C; producing vinegar C12J; producing specific peptides or proteins C07K; producing enzymes C12N 9/00; DNA or RNA concerning genetic engineering, vectors, e.g. plasmids, or their isolation, preparation or purification C12N 15/00; measuring or testing processes involving enzymes or microorganisms C12Q; measuring or testing processes involving nucleic acid amplification reactions C12Q 1/6844; fermentation processes to form a food composition, A21 or A23; compounds in general, see the relevant compound class, e.g. C01, C07)}

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	C12P 7/62		Groups C12P 7/62 and C12P 7/625 are incomplete pending reclassification of documents from group C12P 7/6436. Groups C12P 7/6436, C12P 7/62 and C12P 7/625 should be considered in order to perform a complete search.
N	C12P 7/6427		Group C12P 7/6427 is impacted by reclassification into groups C12P 7/6431, C12P 7/6432 and C12P 7/6434. All groups listed in this Warning should be considered in order to perform a complete search.
N	C12P 7/6431		Group C12P 7/6431 is incomplete pending reclassification of documents from group C12P 7/6427. Groups C12P 7/6431 and C12P 7/6427 should be considered in order to perform a complete search.
N	C12P 7/6432		Group C12P 7/6432 is incomplete pending reclassification of documents from group C12P 7/6427. Groups C12P 7/6432 and C12P 7/6427 should be considered in order to perform a complete search.
N	C12P 7/6434		Group C12P 7/6434 is incomplete pending reclassification of documents from group C12P 7/6427. Groups C12P 7/6434 and C12P 7/6427 should be considered in order to perform a complete search.
N	C12P 7/6436		Group C12P 7/6436 is impacted by reclassification into groups C12P 7/62 and C12P 7/625. All groups listed in this Warning should be considered in order to perform a complete search.
N	C12P 7/6445		Group C12P 7/6445 is impacted by reclassification into group C12P 7/6458. Groups C12P 7/6445 and C12P 7/6458 should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	C12P7/6454		Group C12P 7/6454 is impacted by reclassification into group C12P 7/6458. Groups C12P 7/6454 and C12P 7/6458 should be considered in order to perform a complete search.
N	C12P 7/6458		Group C12P 7/6458 is incomplete pending reclassification of documents from groups C12P 7/6445, C12P 7/6454, C12P 7/6472, C12P 7/6481 and C12P 7/649. All groups listed in this Warning should be considered in order to perform a complete search.
N	C12P 7/6472		Group C12P 7/6472 is impacted by reclassification into group C12P 7/6458. Groups C12P 7/6472 and C12P 7/6458 should be considered in order to perform a complete search.
N	C12P 7/6481		Group C12P 7/6481 is impacted by reclassification into group C12P 7/6458. Groups C12P 7/6481 and C12P 7/6458 should be considered in order to perform a complete search.
N	C12P 7/649		Group C12P 7/649 is impacted by reclassification into group C12P 7/6458. Groups C12P 7/649 and C12P 7/6458 should be considered in order to perform a complete search.

*N = new warning, M = modified warning, D = deleted warning

NOTE: The "Location" column only requires the symbol PRIOR to the location of the warning. No further directions such as "before" or "after" are required.

2. A. DEFINITIONS (new)

Insert: The following new Definition.

C12P 7/62

Definition statement

This place covers:

This place covers the production of carboxylic acid esters, except fatty acid esters.

References

Informative references

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

Fatty acid esters	C12P 7/6436
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2. A. DEFINITIONS (modified)

Insert: The following modifications.

C12P 7/64

Insert: The following new Informative references section and table row.

References

Informative references

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

Phosphoglycerides having carboxylic acids with less than seven carbon atoms	C12P 7/62
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Special rules of classification

Insert: The following new paragraphs immediately following the existing third paragraph.

The term “fatty acids” has been defined as below to include only carboxylic acids having a chain length of at least 7 carbon atoms. Documents relating to the production of “volatile fatty acids” normally relate to the production of carboxylic acids having a shorter chain, such as C2-C5 carboxylic acids. These documents should be classified in the respective groups in [C12P 7/40](#) and subgroups.

As an exception, documents relating to fatty acid glycerides, wherein the carbon chain of the carboxylic acid moieties is shorter than 7 carbons, but wherein the glyceride is evidently a fat or oil, such as tributyrin, should be classified in [C12P 7/6445](#) or subgroups. Similarly, documents relating to alkyl esters wherein the carboxylic acid moiety has at least 4 carbon atoms, and wherein the alcohol moiety is a long chain alcohol, e.g. a fatty alcohol, should be classified in [C12P 7/6436](#) if the number of carbon atoms in the alcohol chain is 6 carbon atoms or more.

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Insert: The following new Glossary of terms.

Glossary of terms

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

Esterification	Formation of an ester by reaction of an acid with an alcohol
Transesterification	Formation of an ester by the reaction of an ester with an alcohol (=alcoholysis), by reaction of an ester with an acid (=acidolysis) or by reaction of an ester with another ester (=interesterification, ester exchange)
Biodiesel or (bio)fuel	Fatty acid alkyl esters used as biodiesel, generally C1-C3 alkyl (methyl, ethyl or propyl) esters or C4 and C5 alkyl esters of fatty acids
Fatty acid	Carboxylic acid having at least seven carbon atoms in an unbroken linear or branched chain bound to a carboxyl group, i.e. n-heptanoic acid and higher carboxylic acids, as well as unsaturated, or oxidized derivatives thereof, wherein oxidized derivative means that the carboxylic acid may contain hydroxy-, keto-, epoxy-, carboxy, peroxy, groups attached to the carbon chain.

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3. REVISION CONCORDANCE LIST (RCL)

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
C	C12P 7/6427	C12P7/6427, C12P 7/6431, C12P 7/6432, C12P 7/6434
C	C12P 7/6436	C12P 7/62, C12P 7/625, C12P 7/6436
C	C12P 7/6445	C12P 7/6445, C12P 7/6458
C	C12P 7/6454	C12P 7/6454, C12P 7/6458
C	C12P 7/6472	C12P 7/6458, C12P 7/6472
C	C12P 7/6481	C12P 7/6458, C12P 7/6481
C	C12P 7/649	C12P 7/6458, C12P 7/649

* C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed.

NOTES:

- Only C, D, F, and Q type entries are included in the table above.
- When multiple symbols are included in the “To” column, do not use ranges of symbols.
- For administrative transfer of documents, the following text should be used: “< administrative transfer to XX>”, “<administrative transfer to XX and YY simultaneously>”, or “<administrative transfer to XX, YY, ...and ZZ simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be “additional information”.
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations “ADD” or “INV”: <administrative transfer to XX ADD>, <administrative transfer to XX INV>, or < administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the “D” entries of 2000-series or Y-series groups may not require a destination (“To”) symbol, however it is required to specify “<no transfer>” in the “To” column for such cases.
- RCL is not needed for finalisation projects.

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4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
C12P 7/625	C12P 7/625	UPDATED
C12P 7/6409	C12P 7/6409	UPDATED
C12P 7/6418	C12P 7/6418	UPDATED
C12P 7/6427	C12P 7/6427	UPDATED
C12P 7/6431	C12P 7/6431	NEW
C12P 7/6432	C12P 7/6432	NEW
C12P 7/6434	C12P 7/6434	NEW
C12P 7/6436	C12P 7/6436	UPDATED
C12P 7/6445	C12P 7/6445	UPDATED
C12P 7/6454	C12P 7/6454	UPDATED
C12P 7/6458	C12P 7/6458	NEW
C12P 7/6463	C12P 7/6463	UPDATED
C12P 7/6472	C12P 7/6472	UPDATED
C12P 7/6481	C12P 7/6481	UPDATED
C12P 7/649	C12P 7/649	UPDATED

*Action column:

- For an (N) or (Q) entry, provide an IPC symbol and complete the Action column with “NEW.”
- For an existing CPC main trunk entry or indexing entry where the existing IPC symbol needs to be changed, provide an updated IPC symbol and complete the Action column with “UPDATED.”
- For a (D) CPC entry or indexing entry complete the Action column with “DELETE.” IPC symbol does not need to be included in the IPC column.
- For an (N) 2000 series CPC entry which is positioned within the main trunk scheme (breakdown code) provide an IPC symbol and complete the action column with “NEW”.
- For an (N) 2000 series CPC entry positioned at the end of the CPC scheme (orthogonal code), with no IPC equivalent, complete the IPC column with “CPCONLY” and complete the action column with “NEW”.

NOTES:

- F symbols are not included in the CICL table above.
- T and M symbols are not included in the CICL table above unless a change to the existing IPC is desired.