

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 778

DATE: JANUARY 1, 2020

PROJECT RP0631

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Symbols Deleted:	C05F	17/0009, 17/0018, 17/0027, 17/0036, 17/0045, 17/0054, 17/0063, 17/0072, 17/0081, 17/009, 17/02, 17/0205, 17/0211, 17/0217, 17/0223, 17/0229, 17/0235, 17/0241, 17/0247, 17/0252, 17/0258, 17/0264, 17/027, 17/0276, 17/0282, 17/0288, 17/0294
Symbols New:	C05F	17/05, 17/10, 17/15, 17/20, 17/30, 17/40, 17/50, 17/60, 17/70, 17/80, 17/90, 17/907, 17/914, 17/921, 17/929, 17/936, 17/939, 17/943, 17/95, 17/955, 17/957, 17/964, 17/971, 17/979, 17/986, 17/989, 17/993
Titles Changed:	C05F	17/00
DEFINITIONS:		
Definitions Deleted:	C05F	17/0009, 17/0018, 17/0036, 17/0045, 17/0054, 17/02, 17/0205, 17/027
Definitions New:	C05F	17/05, 17/10, 17/15, 17/20, 17/40, 17/90, 17/907, 17/979, 17/986

The following subclasses/groups are also impacted by this Notice of Changes: C05G, B65D, B65G, C05F, C05F, C12M, C12M

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)

CPC NOTICE OF CHANGES 778

DATE: JANUARY 1, 2020

PROJECT RP0631

4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)
5. CHANGES TO THE CROSS-REFERENCE LIST (CRL)

CPC NOTICE OF CHANGES 778

DATE: JANUARY 1, 2020

PROJECT RP0631

1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)**SUBCLASS C05F - ORGANIC FERTILISERS NOT COVERED BY SUBCLASSES C05B, C05C, e.g. FERTILISERS FROM WASTE OR REFUSE {(breeding of earthworms A01K 67/0332)}**

<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	C05F17/00	0	Preparation of fertilisers characterised by biological or biochemical treatment steps, e.g. composting or fermentation	
D	C05F17/0009	1	{in concurrence with invertebrata, (e.g. worms, flies, maggots)}	<administrative transfer to C05F17/05>
D	C05F17/0018	1	{Processing of liquids or slurries}	<administrative transfer to C05F17/40>
D	C05F17/0027	1	{Multi-step composting process, (e.g. anaerobic-aerobic)}	<administrative transfer to C05F17/50>
D	C05F17/0036	1	{Activators/stimulators for composting process}	<administrative transfer to C05F17/20>
D	C05F17/0045	1	{Adding/removing compounds to/from the process streams other than water and air}	<administrative transfer to C05F17/10>
D	C05F17/0054	2	{the process stream being a gas}	<administrative transfer to C05F17/15>
D	C05F17/0063	1	{adding/removing heat to/from the composting process}	<administrative transfer to C05F17/60>
D	C05F17/0072	1	{with process parameter responsive control}	<administrative transfer to C05F17/70>
D	C05F17/0081	1	{using irradiation, (e.g. solar, nuclear) or electric or magnetic fields}	<administrative transfer to C05F17/30>
D	C05F17/009	1	{Elimination of harmful substances, the end product being a fertilizer}	<administrative transfer to C05F17/80>
D	C05F17/02	1	Apparatus therefor	<administrative transfer to C05F17/90>
D	C05F17/0205	2	{Small scale installations, i.e. no provisions for mechanically feeding or removing of material from installations, e.g. bins, garden composters}	<administrative transfer to C05F17/907>
D	C05F17/0211	2	{Portable or transportable devices, e.g. transport containers, trucks}	<administrative transfer to C05F17/914>

CPC NOTICE OF CHANGES 778

DATE: JANUARY 1, 2020

PROJECT RP0631

<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>
D	C05F17/0217	2	{Systematic, essentially horizontal displacement of material from entrance to exit of installation}	<administrative transfer to C05F17/921>
D	C05F17/0223	3	{Cylinders; Drums}	<administrative transfer to C05F17/929>
D	C05F17/0229	3	{Tunnels}	<administrative transfer to C05F17/936>
D	C05F17/0235	3	{Mixing or moving equipment following predetermined, fixed paths, e.g. rails, cables}	<administrative transfer to C05F17/939>
D	C05F17/0241	3	{Mixing and moving equipment not restricted by rails, cables or the like}	<administrative transfer to C05F17/943>
D	C05F17/0247	2	{Systematic, essentially vertical displacement of material from entrance to exit of installation}	<administrative transfer to C05F17/95>
D	C05F17/0252	3	{the material going from platform to platform}	<administrative transfer to C05F17/955>
D	C05F17/0258	2	{Parts or details of composting apparatus, e.g. floors, covers, doors}	<administrative transfer to C05F17/964>
D	C05F17/0264	3	{Details regulating incoming and outgoing process streams from apparatus}	<administrative transfer to C05F17/971>
D	C05F17/027	4	{the process stream being a gas stream, e.g. aeration patterns}	<administrative transfer to C05F17/979>
D	C05F17/0276	4	{the process stream being a liquid stream, e.g. humidification details}	<administrative transfer to C05F17/986>
D	C05F17/0282	3	{Devices for measuring process parameters, e.g. temperature, pressure, water content}	<administrative transfer to C05F17/993>
D	C05F17/0288	2	{Flow sheets for composting process}	<administrative transfer to C05F17/989>
D	C05F17/0294	2	{Installation consisting of individual composting reactors in series}	<administrative transfer to C05F17/957>
N	C05F17/05	1	Treatments involving invertebrates, e.g. worms, flies or maggots	
N	C05F17/10	1	Addition or removal of substances other than water or air to or from the material during the treatment (for activating or stimulating the treatment C05F17/20)	
N	C05F17/15	2	{the material being gas}	

CPC NOTICE OF CHANGES 778

DATE: JANUARY 1, 2020

PROJECT RP0631

<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>
N	C05F17/20	1	using specific microorganisms or substances, e.g. enzymes, for activating or stimulating the treatment (use of invertebrates C05F17/05)	
N	C05F17/30	1	using irradiation, e.g. solar or nuclear radiation; using electric or magnetic fields	
N	C05F17/40	1	Treatment of liquids or slurries	
N	C05F17/50	1	Treatments combining two or more different biological or biochemical treatments, e.g. anaerobic and aerobic treatment or vermicomposting and aerobic treatment	
N	C05F17/60	1	Heating or cooling during the treatment	
N	C05F17/70	1	Controlling the treatment in response to process parameters	
N	C05F17/80	1	Separation, elimination or disposal of harmful substances during the treatment	
N	C05F17/90	1	Apparatus therefor	
N	C05F17/907	2	Small-scale devices without mechanical means for feeding or discharging material, e.g. garden compost bins	
N	C05F17/914	2	Portable or transportable devices, e.g. transport containers or trucks	
N	C05F17/921	2	Devices in which the material is conveyed essentially horizontally between inlet and discharge means	
N	C05F17/929	3	Cylinders or drums	
N	C05F17/936	3	Tunnels	
N	C05F17/939	3	{Means for mixing or moving with predetermined or fixed paths, e.g. rails or cables}	
N	C05F17/943	3	Means for combined mixing and conveying	
N	C05F17/95	2	Devices in which the material is conveyed essentially vertically between inlet and discharge means	
N	C05F17/955	3	{the material going from platform to platform}	
N	C05F17/957	2	using two or more serially arranged devices	
N	C05F17/964	2	Constructional parts, e.g. floors, covers or doors	

CPC NOTICE OF CHANGES 778

DATE: JANUARY 1, 2020

PROJECT RP0631

<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>
N	C05F17/971	3	for feeding or discharging materials to be treated; for feeding or discharging other material	
N	C05F17/979	4	the other material being gaseous	
N	C05F17/986	4	the other material being liquid	
N	C05F17/989	2	{Flow sheets for biological or biochemical treatment}	
N	C05F17/993	2	Arrangements for measuring process parameters, e.g. temperature, pressure or humidity	

*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 finalization 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.

2. A. DEFINITIONS (new)

Insert the following new definitions.

C05F 17/05

Relationships with other classification places

Worm breeding is classified in [A01K 67/0332](#).

C05F 17/10

Definition statement

This place covers:

Fermentation processes where materials are added or extracted in order to modify the course of the fermentation.

Typical compounds are pH adjusters, structure-improving materials, etc.

References

Limiting references

This place does not cover:

Using specific microorganisms or substances for activating or stimulating the treatment

C05F 17/20

C05F 17/15

References

Informative references

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

Chemical or biological purification of waste gases	B01D 53/34
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C05F 17/20

Definition statement

This place covers:

Fermentation processes where specific microorganisms are added.

References

Limiting references

This place does not cover:

Use of invertebrates	C05F 17/05
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C05F 17/40

Definition statement

This place covers:

Fermentation of liquids or combination of solids and liquids to obtain a compost.

DATE: JANUARY 1, 2020

PROJECT RP0631

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

Fertilisers from manures	C05F 3/00
Fertilisers from sludge	C05F 7/00
Treatment of manures	A01C 3/00

C05F 17/90**Definition statement***This place covers:*

Apparatus for processing wastes by fermentation step which do not fall under any of the subgroups that follow.

Special rules of classification

No Combination-sets are used in this group and its subgroups.

Every aspect of a document is classified in each relevant group.

C05F 17/907**Definition statement***This place covers:*

Bins, garden composters.

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

Refuse receptacles	B65F 1/00
Refuse receptacles adapted for compost	B65F 2001/1489

C05F 17/979

Definition statement

This place covers:

Apparatus with means for forced aeration of composting masses, e.g. aeration patterns.

References

Informative references

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

Floors roofs or bottoms for drying solid materials	F26B 25/10
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Special rules of classification

Devices presenting aeration merely caused by a natural draft is not taken into account for classification in this group.

C05F 17/986

Definition statement

This place covers:

Humidification devices.

CPC NOTICE OF CHANGES 778

DATE: JANUARY 1, 2020

PROJECT RP0631

2. B. DEFINITIONS QUICK FIX

<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
C05F 17/0009			Delete the entire definition.
C05F 17/0018			Delete the entire definition.
C05F 17/0036			Delete the entire definition.
C05F 17/0045			Delete the entire definition.
C05F 17/0054			Delete the entire definition.
C05F 17/02			Delete the entire definition.
C05F 17/0205			Delete the entire definition.
C05F 17/027			Delete the entire definition.

NOTES:

- The table above is used for corrections or modifications to existing definitions, e.g. delete an entire definition or part thereof; propose new wording or modify wording of a section, change the symbol the definition is associated with, change or delete a reference symbol, etc.
- Do not delete (F) symbol definitions.

CPC NOTICE OF CHANGES 778

DATE: JANUARY 1, 2020

PROJECT RP0631

3. REVISION CONCORDANCE LIST (RCL)

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
D	C05F17/0009	<administrative transfer to C05F17/05>
D	C05F17/0018	<administrative transfer to C05F17/40>
D	C05F17/0027	<administrative transfer to C05F17/50>
D	C05F17/0036	<administrative transfer to C05F17/20>
D	C05F17/0045	<administrative transfer to C05F17/10>
D	C05F17/0054	<administrative transfer to C05F17/15>
D	C05F17/0063	<administrative transfer to C05F17/60>
D	C05F17/0072	<administrative transfer to C05F17/70>
D	C05F17/0081	<administrative transfer to C05F17/30>
D	C05F17/009	<administrative transfer to C05F17/80>
D	C05F17/02	<administrative transfer to C05F17/90>
D	C05F17/0205	<administrative transfer to C05F17/907>
D	C05F17/0211	<administrative transfer to C05F17/914>
D	C05F17/0217	<administrative transfer to C05F17/921>
D	C05F17/0223	<administrative transfer to C05F17/929>
D	C05F17/0229	<administrative transfer to C05F17/936>
D	C05F17/0235	<administrative transfer to C05F17/939>
D	C05F17/0241	<administrative transfer to C05F17/943>
D	C05F17/0247	<administrative transfer to C05F17/95>
D	C05F17/0252	<administrative transfer to C05F17/955>
D	C05F17/0258	<administrative transfer to C05F17/964>
D	C05F17/0264	<administrative transfer to C05F17/971>
D	C05F17/027	<administrative transfer to C05F17/979>
D	C05F17/0276	<administrative transfer to C05F17/986>
D	C05F17/0282	<administrative transfer to C05F17/993>
D	C05F17/0288	<administrative transfer to C05F17/989>
D	C05F17/0294	<administrative transfer to C05F17/957>

* 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.

CPC NOTICE OF CHANGES 778

DATE: JANUARY 1, 2020

PROJECT RP0631

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 finalization projects.

CPC NOTICE OF CHANGES 778

DATE: JANUARY 1, 2020

PROJECT RP0631

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
C05F17/0009		DELETE
C05F17/0018		DELETE
C05F17/0027		DELETE
C05F17/0036		DELETE
C05F17/0045		DELETE
C05F17/0054		DELETE
C05F17/0063		DELETE
C05F17/0072		DELETE
C05F17/0081		DELETE
C05F17/009		DELETE
C05F17/02		DELETE
C05F17/0205		DELETE
C05F17/0211		DELETE
C05F17/0217		DELETE
C05F17/0223		DELETE
C05F17/0229		DELETE
C05F17/0235		DELETE
C05F17/0241		DELETE
C05F17/0247		DELETE
C05F17/0252		DELETE
C05F17/0258		DELETE
C05F17/0264		DELETE
C05F17/027		DELETE
C05F17/0276		DELETE
C05F17/0282		DELETE
C05F17/0288		DELETE
C05F17/0294		DELETE
C05F17/05	C05F17/05	NEW
C05F17/10	C05F17/10	NEW
C05F17/15	C05F17/10	NEW
C05F17/20	C05F17/20	NEW

CPC NOTICE OF CHANGES 778

DATE: JANUARY 1, 2020

PROJECT RP0631

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
C05F17/30	C05F17/30	NEW
C05F17/40	C05F17/40	NEW
C05F17/50	C05F17/50	NEW
C05F17/60	C05F17/60	NEW
C05F17/70	C05F17/70	NEW
C05F17/80	C05F17/80	NEW
C05F17/90	C05F17/90	NEW
C05F17/907	C05F17/907	NEW
C05F17/914	C05F17/914	NEW
C05F17/921	C05F17/921	NEW
C05F17/929	C05F17/929	NEW
C05F17/936	C05F17/936	NEW
C05F17/939	C05F17/921	NEW
C05F17/943	C05F17/943	NEW
C05F17/95	C05F17/95	NEW
C05F17/955	C05F17/95	NEW
C05F17/957	C05F17/957	NEW
C05F17/964	C05F17/964	NEW
C05F17/971	C05F17/971	NEW
C05F17/979	C05F17/979	NEW
C05F17/986	C05F17/986	NEW
C05F17/989	C05F17/90	NEW
C05F17/993	C05F17/993	NEW

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

CPC NOTICE OF CHANGES 778

DATE: JANUARY 1, 2020

PROJECT RP0631

5. CROSS-REFERENCE LIST (CRL)

Scheme references impacted by this revision project

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Action; New reference symbol; New text</u>
C05G (Warning)	C05F 17/0294	<u>Replace</u> C05F 17/0294 with C05F 17/993

Definitions references impacted by this revision project

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Action; New reference symbol; New text</u>
B65D 85/00	C05F17/02	Limiting references	<u>Replace</u> C05F17/02 with C05F 17/90 .
B65G 65/06	C05F17/0241	Informative references	<u>Replace</u> C05F17/0241 with C05F 17/943 .
C05F 3/00	C05F17/0018	Limiting references	<u>Replace</u> C05F17/0018 with C05F 17/40 .
C05F 3/06	C05F17/02	Limiting references	<u>Replace</u> C05F17/02 with C05F 17/90 .
C12M	C05F17/02	Limiting references	Replace C05F17/02 with C05F 17/90 .
C12M 21/00	C05F17/02	Limiting references	Replace C05F17/02 with C05F 17/90 .

NOTES:

- The CRL tables above are used for changes to locations **outside** of the project scope. Changes to references in scheme titles or definitions **inside** the project scope will be reflected in the “scheme change” template or one of the “definition” templates.
- In addition to other changes proposed in the tables above, in the column titled “Referenced subclass or group to be changed,” **referenced** D symbols should indicate an action of “delete” or should indicate a replacement symbol and **referenced** F symbols should indicate a replacement symbol.
- When a reference is deleted, text related to that reference will also be deleted unless other references or a range of references associated with the same text remain.