

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 894

DATE: AUGUST 1, 2020

PROJECT RP0318

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:	G03G	9/103
	G03G	9/108
	G03G	9/1085
	G03G	9/1087
	G03G	9/1088
	G03G	9/10882
	G03G	9/10884
Title Changed:	G03G	9/1075
Warnings New:	G03G	9/10
	G03G	9/103
	G03G	9/107
	G03G	9/1075
	G03G	9/108
	G03G	9/1087
	G03G	9/1088
Notes Modified:	G03G	9/08
DEFINITIONS:		
Definitions Modified:	G03G	9/00

No other subclasses/groups are impacted by this Notice of Changes.

This Notice of Changes includes the following:

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)

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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 G03G - ELECTROGRAPHY; ELECTROPHOTOGRAPHY; MAGNETOGRAPHY (information storage based on relative movement between record carrier and transducer G11B; static stores with means for writing-in or reading-out information G11C; recording of television signals H04N 5/76)

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
U	G03G 9/09791	4	{Metallic soaps of higher carboxylic acids}	
C	G03G 9/10	2	characterised by carrier particles	G03G 9/10 G03G 9/103
N	G03G 9/103	3	{Glass particles}	
C	G03G 9/107	3	having magnetic components	G03G 9/107 G03G9/1075 G03G 9/108 G03G 9/1085 G03G 9/1087 G03G 9/1088 G03G 9/10882 G03G 9/10884
T	G03G 9/1075	4	{Structural characteristics of the carrier particles, e.g. shape or crystallographic structure}	
N	G03G 9/108	4	{Ferrite carrier, e.g. magnetite}	
N	G03G 9/1085	5	{with non-ferrous metal oxide, e.g. MgO-Fe ₂ O ₃ }	
N	G03G 9/1087	4	{Specified elemental magnetic metal or alloy, e.g. alnico comprising iron, nickel, cobalt, and aluminum, or permalloy comprising iron and nickel}	
N	G03G 9/1088	4	{Binder-type carrier}	
N	G03G 9/10882	5	{Binder is obtained by reactions only involving carbon-carbon unsaturated bonds}	
N	G03G 9/10884	5	{Binder is obtained other than by reactions only involving carbon-carbon unsaturated bonds}	

*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.

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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 G03G -- ELECTROGRAPHY; ELECTROPHOTOGRAPHY; MAGNETOGRAPHY (information storage based on relative movement between record carrier and transducer G11B; static stores with means for writing-in or reading-out information G11C; recording of television signals H04N 5/76)

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	G03G 9/10		Group G03G 9/10 is impacted by reclassification into group G03G 9/103. Groups G03G 9/10 and G03G 9/103 should be considered in order to perform a complete search.
N	G03G 9/103		Group G03G 9/103 is incomplete pending reclassification of documents from group G03G 9/10. Groups G03G 9/10 and G03G 9/103 should be considered in order to perform a complete search.
N	G03G 9/107		Group G03G 9/107 is impacted by reclassification into groups G03G 9/1075 - G03G 9/10884. All groups listed in this Warning should be considered in order to perform a complete search.
N	G03G 9/1075		Group G03G 9/1075 is incomplete pending reclassification of documents from group G03G 9/107. Groups G03G 9/107 and G03G 9/1075 should be considered in order to perform a complete search.
N	G03G 9/108		Groups G03G 9/108 - G03G 9/1085 are incomplete pending reclassification of documents from group G03G 9/107. Groups G03G 9/107 and G03G 9/108 - G03G 9/1085 should be considered in order to perform a complete search.
N	G03G 9/1087		Group G03G 9/1087 is incomplete pending reclassification of documents from group G03G 9/107. Groups G03G 9/107 and G03G 9/1087 should be considered in order to perform a complete search.
N	G03G 9/1088		Groups G03G 9/1088 - G03G 9/10884 are incomplete pending reclassification of documents from group G03G 9/107. All groups listed in this Warning 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.

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C. New, Modified or Deleted Note(s)

SUBCLASS G03G -- ELECTROGRAPHY; ELECTROPHOTOGRAPHY; MAGNETOGRAPHY (information storage based on relative movement between record carrier and transducer G11B; static stores with means for writing-in or reading-out information G11C; recording of television signals H04N 5/76)

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	G03G 9/08	<p><u>NOTE</u> In groups G03G 9/0802 - G03G 9/135, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.</p>	<p><u>Replace the old Note with the following:</u></p> <p><u>NOTES</u></p> <ol style="list-style-type: none"> 1. In the subgroups of {G03G 9/0802 - G03G 9/1355}, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place. 2. {In the subgroups of G03G 9/0835 - G03G 9/0839, G03G9/08786 - G03G9/08797, G03G9/0926 - G03G9/0928 and G03G9/10 - G03G9/10884 the common rule is applied.}

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

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

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2. A. DEFINITIONS (modified)

G03G9/00

Definition statement

This place covers:

Replace: The current entire Definition statement section with the following new "Definition statement" section:

All types of developers comprising all types of toner particles and all types of carriers, including dry and liquid developers.

This includes:

- toner particles and carrier particles of dry two-component developing agents
- magnetic toner particles
- toner particles and liquid carrier of liquid developers

The toner particles are further sub-grouped by their components such as binders, colorants or dyes, plasticisers, charge control agents and compositions.

The carrier particles are further sub-divided by magnetic and non-magnetic particles and binders.

This place further includes the properties and manufacture for the toner particles.

This group also includes the properties of the carrier particles and the manufacture of the coating of the carrier particles.

Insert: The following new **Special rules of classification** section with the information below.

Special rules of classification

In the subgroups of [G03G 9/0802](#) - [G03G 9/1355](#), the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.

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However, in the subgroups of [G03G 9/0835 - G03G 9/0839](#), [G03G9/08786 - G03G9/08797](#), [G03G9/0926 - G03G9/0928](#) and [G03G9/10 - G03G9/10884](#) the common rule is applied.

Further details of subgroups

Electrolytic developers are classified in subgroup [G03G9/06](#).

Liquid developers should be classified in [G03G9/12](#).

Toner particles are classified in subgroup [G03G9/08](#) and further subdivided according to their preparation method for producing, their chemical composition and their properties and components.

[G03G9/0802](#) covers preparation method for producing the toner particles.

[G03G9/0806](#) covers chemical synthesis of at least one toner component (e.g. polymeric binder) takes place during the toner preparation process, in situ.

[G03G9/0808](#) covers dry mixing of toner components in solid/softened state.

[G03G9/081](#) covers reactive mixing of the toner components in a liquefied state, melt kneading, and reactive mixing with a co-extruder.

[G03G9/0819](#) covers the characteristics of the toner particles, such as particle size and particle size distribution.

[G03G9/0821](#) covers the physical characteristics and chemical parameters of the toner particles, in case the toner parameters are caused by the toner binder resins the document should be classified in both [G03G9/08795](#) and [G03G9/08797](#).

Magnetic toner particles and their parameters should be classified in [G03G9/083](#).

[G03G9/0825](#) covers the structure of the toner.

[G03G9/0827](#) covers the shape of the toner such as degree of sphericity, shape factor SF1, SF2, roundness, needle-like shape, potato-like shape, and lamellar shape.

Physical properties of the magnetic components in the magnetic toner should only be classified in [G03G9/0835 - G03G9/0839](#).

Physical or chemical properties of the nonmagnetic components in the magnetic toner are classified in [G03G9/0821 - G03G9/0827](#).

In [G03G9/0836](#), examples of other physical properties of the magnetic toner covered in this group include electrical properties, true density,

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and apparent density. Specific properties of the magnetic toners, relating to the shape are covered in [G03G9/0837](#) and to the particle size in [G03G9/0838](#). These shape-properties and particle size properties are consequently excluded from [G03G9/0836](#). Documents relating to a process for manufacturing of a magnetic toner exhibiting the said qualities should be classified in the corresponding method classes (i.e. [G03G9/0802](#) - [G03G9/0817](#), which consist of toners in general: magnetic and nonmagnetic toners) as well as in the properties groups of magnetic toners.

Moreover, the binder resin, the colorant, the plasticisers and charge control agents of a magnetic toner should be classified in [G03G9/087](#), [G03G9/09](#), and [G03G9/097](#), respectively.

[G03G9/087](#) covers the binders for the toner particles.

This group is further subdivided according to the chemical composition of the toner binder resin, such as macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds (e.g. polyaddition) covered by [G03G9/08702](#) - [G03G9/0874](#), macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds (e.g. polycondensation) covered by [G03G9/08742](#) - [G03G9/08773](#) and natural macromolecular compounds or derivatives polymers covered by [G03G9/08775](#) - [G03G9/08782](#).

[G03G9/08784](#) and its subgroups cover the structural, physical or chemical properties (parameters) of the toner binder resin.

Documents dealing with a toner binder resin should be classified in both the material groups and the parameter groups if both characteristics are present. If a coloured compound only functions as a charge controlling agent [CCA], then it should only be classified in the CCA groups.

Colouring agents of toner particles are classified in [G03G9/09](#).

Note: Colouring agent is meant to be interpreted as any photosensitive active agent. In case the photosensitive agent is defined by its chemical composition it should be classified in [G03G9/0902](#) - [G03G9/0922](#).

In case the photosensitive agent is defined by a specific substituent it should be classified in [G03G9/0924](#).

In case the toner parameters are clearly caused by the toner colorants, it should be classified only in [G03G9/0926](#).

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In case the photosensitive agent is defined by physical or chemical properties other than colour, e.g. encapsulated pigment shape or dimension it should be classified in [G03G9/0926](#).

Compounds that are capable of generating colouring agents by chemical reaction, such as precursors and leuco dyes should be classified in [G03G9/0928](#).

The encapsulated toner comprising core-shell structure should be classified only in [G03G9/093](#).

This subgroup covers all toner particles which comprise the specific structure of a core and a shell, i.e. the coated carrier particles should be classified in [G03G9/113](#).

[G03G9/09307](#) - [G03G9/09342](#) include toner particles relating to specific shell polymers and as well inorganic and organic particles in said shell. These particular shell polymers should not be classified in [G03G9/087](#).

[G03G9/0935](#) - [G03G9/09385](#) include toner particles relating to specific core polymers and as well inorganic and organic particles in said core. These particular core polymers should not be classified in [G03G9/087](#).

[G03G9/09392](#) covers the preparation method of said encapsulated toner particles. Note: Do not classify the preparation method of an encapsulated toner in [G03G9/0802](#) - [G03G9/0817](#).

Plasticisers and charge controlling agents are classified in [G03G9/097](#), i.e. components of a dry toner other than binder resins, colorants, dyes, photoconductive material and magnetic particles.

This group is subdivided according to inorganic compounds [G03G9/09708](#), organic compounds [G03G9/09733](#) and organo-metallic compounds [G03G9/09783](#).

In the subgroups of [G03G9/09741](#) and [G03G9/0975](#), the classification is done for the part of the charge control agent that provides the charge controlling property, e.g. an oxy carboxylic acid (-) metal (+) complex functions as a negative charge control agent and is classified in [G03G9/0975](#) and a quaternary ammonium (+) salts (-) functions as positive charge control agent and is classified in [G03G9/09741](#).

Silica particles which are treated with organic compounds should be classified in both subgroups [G03G9/09716](#) and [G03G9/09725](#).

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Carrier particles of dry developers are classified in [G03G9/10](#).

Note: Magnetic particles in toner particles as classified in subgroup [G03G9/083](#) are not carrier particles.

[G03G9/10](#) is further subdivided according to the chemical composition of the magnetic material and its structure.

Common rule applies to subgroups [G03G9/10](#) - [G03G9/10884](#).

[G03G9/107](#) includes specific aspects of the magnetic component(s) of the carrier.

[G03G9/1075](#) covers the specific shape of the magnetic core component, as well as the crystallographic structure of the magnetic core component, used in or as carrier particles, e.g. encapsulated or multi-layered magnetic component are classified in [G03G9/1075](#), but the different aspects of the coating material of the multilayered carrier particles are classified in [G03G9/113](#) (see below). It further covers the crystallographic structure of the magnetic component of the carrier particles. [G03G9/108](#) and subgroups cover the chemical constitution of the magnetic component.

[G03G9/1088](#) and subgroups include binder-type carriers where a magnetic material is dispersed in a binder resin.

[G03G9/113](#) and sub-groups include all specific aspects of the coating covering the carrier. [G03G9/113](#) includes all different types of coating material covering a magnetic carrier core or a non-magnetic carrier core.

[G03G9/1131](#) - [G03G9/1139](#) include all the different types of resins and as well inorganic and organic components of the carrier coating.

[G03G9/1131](#) covers the coating methods of coated carriers, which can be coated or encapsulated as one very specific example of coating, and as well it covers the structure of said coatings of said carrier particles, such as uniformity or porosity.

Liquid developers (toners) or wet developers (toners) are classified in [G03G9/12](#).

[G03G9/12](#) is further subdivided according to the components of the liquid developer: such as colouring agents [G03G9/122](#), liquid (carrier) [G03G9/125](#), polymer component [G03G9/13](#) and stabiliser/ charge controlling agent [G03G9/135](#).

[G03G9/16](#) covers developers such as solutions, aerosols and electrodeposition solution which are not provided in any of the subgroups [G03G9/06](#) - [G03G9/135](#).

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[G03G9/18](#) covers developers which are considered as differentially wetting liquid developers such as ejected droplets.

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3. REVISION CONCORDANCE LIST (RCL)

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
C	G03G 9/10	G03G 9/10, G03G 9/103
C	G03G 9/107	G03G 9/107, G03G 9/1075, G03G 9/108, G03G 9/1085, G03G 9/1087, G03G 9/1088, G03G 9/10882, G03G 9/10884

* 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>
G03G 9/103	G03G9/10	NEW
G03G 9/108	G03G9/107	NEW
G03G 9/1085	G03G9/107	NEW
G03G 9/1087	G03G9/107	NEW
G03G 9/1088	G03G9/107	NEW
G03G 9/10882	G03G9/107	NEW
G03G 9/10884	G03G9/107	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.
- T and M symbols are not included in the CICL table above unless a change to the existing IPC is desired.