

ECLA**EUROPEAN CLASSIFICATION****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 [H04N5/76](#)) [[C9507](#)]

Notes

1. This subclass covers:

- the production of permanent directly-visible pictures in conformity with an original picture or document, using an intermediate imagewise distribution of an electric or magnetic quantity, such as a charge pattern, an electric conductivity pattern, or a magnetic pattern;
- the production of permanent directly-visible pictures using an intermediate imagewise distribution of an electric or magnetic quantity, when the origin and the way of generating said intermediate distribution are not relevant.

2. This subclass does not cover:

- use of electric signals for the transmission of the picture information from the original to the reproduction, i.e. pictorial communication, which is covered by subclass [H04N](#);
- production of pictures by heat patterns exclusively, not using an electrostatic or magnetic pattern, which is covered by group [B41M5/00](#);
- production of prints by transferring ink from a printing form to a printing surface, without physical contact and using the force of an electrostatic field, which is covered by subclass [B41M](#);
- selective printing mechanisms characterised by the selective supply of electric current, or the selective application of magnetism or radiation, to a printing material or impression-transfer material, which are covered by groups [B41J2/385](#), [B41J2/435](#).

G03G5/00

Recording members for original recording by exposure, e.g. to light, to heat, to electrons; Manufacture thereof; Selection of materials therefor (recording surfaces for measuring apparatus [G01D15/34](#); photosensitive materials for photographic purposes [G03C](#))

G03G5/00B

- . [[N](#): Materials for treating the recording members, e.g. for cleaning, reactivating, polishing]

G03G5/02

- . Charge-receiving layers ([G03G5/153](#) takes precedence)

G03G5/02B

- . . [[N](#): Dielectric layers for electrography]

G03G5/02B2

- . . . [[N](#): Macromolecular components]

G03G5/02B2B

- [[N](#): obtained by reactions only involving carbon-to-carbon unsaturated bonds]

G03G5/02B2C

- [[N](#): obtained otherwise than by reactions only involving carbon-to-carbon

				unsaturated bonds]
G03G5/02B3	.	.	.	[N: Organic non-macromolecular components]
G03G5/02B4	.	.	.	[N: Inorganic components]
G03G5/022	.	.		Layers for surface-deformation imaging, e.g. frost imaging
G03G5/024	.	.		Photoelectret layers
G03G5/026	.	.		Layers in which during the irradiation a chemical reaction occurs whereby electrically conductive patterns are formed in the layers, e.g. for chemixerography
G03G5/028	.	.		Layers in which after being exposed to heat patterns electrically conductive patterns are formed in the layers, e.g. for thermoxerography
G03G5/04	.	.		Photoconductive layers; Charge-generation layers or charge-transporting layers; Additives therefor; Binders therefor
G03G5/043	.	.	.	Photoconductive layers characterised by having two or more layers or characterised by their composite structure
G03G5/043B	.	.	.	[N: all layers being inorganic]
G03G5/043D	.	.	.	[N: combining organic and inorganic layers]
G03G5/047	.	.	.	characterised by the charge-generation layer or charge transport layer [N: G03G5/043B and G03G5/043D take precedence]
G03G5/05	.	.	.	Organic bonding materials; Methods for coating a substrate with a photoconductive layer; Inert supplements for use in photoconductive layers
G03G5/05A	.	.	.	[N: Inert supplements]
G03G5/05A2	.	.	.	[N: Inorganic compounds] [N9804]
G03G5/05A4	.	.	.	[N: Organic non-macromolecular compounds] [N9804]
G03G5/05A4B	.	.	.	[N: not comprising cyclic groups] [N9804]
G03G5/05A4D	.	.	.	[N: comprising one or more cyclic groups consisting of carbon-atoms only] [N9804]
G03G5/05A4F	.	.	.	[N: comprising one or more heterocyclic groups] [N9804]
G03G5/05B	.	.	.	[N: Coating methods]
G03G5/05C	.	.	.	[N: Macromolecular bonding materials]
				[N: Note In groups G03G5/05C to G03G5/05C10 , in the absence of an indication to the contrary, a polymer is classified in the last appropriate place]
G03G5/05C2	.	.	.	[N: obtained by reactions only involving carbon-to-carbon unsaturated bonds]
G03G5/05C2B	.	.	.	[N: Polyolefins; Polystyrenes; Waxes]
G03G5/05C2C	.	.	.	[N: Halogenated polymers]
G03G5/05C2D	.	.	.	[N: Polyvinylalcohol, polyallylalcohol; Derivatives thereof, e.g. polyvinylesters, polyvinylethers, polyvinylamines]
G03G5/05C2F	.	.	.	[N: Polymers comprising at least one carboxyl radical, e.g. polyacrylic acid, polycrotonic acid, polymaleic acid; Derivatives thereof, e.g. their esters, salts, anhydrides, nitriles, amides]
G03G5/05C2G	.	.	.	[N: Polymers containing hetero rings in the side chain]
G03G5/05C2H	.	.	.	[N: Polymers derived from conjugated double bonds containing monomers, e.g. polybutadiene; Rubbers]
G03G5/05C4	.	.	.	[N: obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds]

G03G5/05C4B	. . . . .	[N: Polyesters]
G03G5/05C4D	. . . . .	[N: Polycarbonates]
G03G5/05C4F	. . . . .	[N: Other polycondensates comprising oxygen atoms in the main chain; Phenol resins]
G03G5/05C4G	. . . . .	[N: Polyamides; Polyimides]
G03G5/05C4H	. . . . .	[N: Other polycondensates comprising nitrogen atoms with or without oxygen atoms in the main chain]
G03G5/05C4K	. . . . .	[N: Polycondensates comprising silicon atoms in the main chain]
G03G5/05C4M	. . . . .	[N: Polycondensates comprising sulfur atoms in the main chain]
G03G5/05C4N	. . . . .	[N: Cellulose and derivatives]
G03G5/05C6	. . . . .	[N: Macromolecular compounds characterised by specific side-chain substituents or end groups]
G03G5/05C8	. . . . .	[N: Macromolecular compounds characterised by their structure or by their chemical properties, e.g. block polymers, reticulated polymers, molecular weight, acidity]
G03G5/05C10	. . . . .	[N: Macromolecular compounds characterised by their physical properties]
G03G5/06	. . .	characterised by the photoconductive material being organic

[N: **Note**

In groups [G03G5/06](#) to [G03G5/06K](#), in the absence of an indication to the contrary, an invention is classified in the last appropriate place
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G03G5/06B	[N: Acyclic or carbocyclic compounds]
G03G5/06B2	[N: containing halogens]
G03G5/06B3	. . . . .	[N: Carbocyclic compounds]
G03G5/06B3B	. . . . .	[N: containing at least one non-six-membered ring]
G03G5/06B4	. . . . .	[N: containing oxygen]
G03G5/06B4B	. . . . .	[N: Squaric acid]
G03G5/06B5	. . . . .	[N: containing nitrogen]
G03G5/06B5B	. . . . .	[N: Amines]
G03G5/06B5D	. . . . .	[N: Hydrazines; Hydrazones]
G03G5/06B7	. . . . .	[N: containing oxygen and nitrogen]
G03G5/06B9	. . . . .	[N: containing non-metal elements other than hydrogen, halogen, oxygen or nitrogen]
G03G5/06D	. . . . .	[N: Heterocyclic compounds]
G03G5/06D2	. . . . .	[N: containing one hetero ring]
G03G5/06D2B	. . . . .	[N: being three- or four-membered]
G03G5/06D2D	. . . . .	[N: being five-membered]
G03G5/06D2D2	. . . . .	{7 dots} [N: containing one hetero atom]
G03G5/06D2D4	. . . . .	{7 dots} [N: containing two hetero atoms]
G03G5/06D2D6	. . . . .	{7 dots} [N: containing three hetero atoms]
G03G5/06D2F	. . . . .	[N: being six-membered]
G03G5/06D2F2	. . . . .	{7 dots} [N: containing one hetero atom]
G03G5/06D2F4	. . . . .	{7 dots} [N: containing two hetero atoms]
G03G5/06D2F6	. . . . .	{7 dots} [N: containing three hetero atoms]

G03G5/06D2H	. . . . .	[N: being more than six-membered]
G03G5/06D4	. . . . .	[N: containing two or more hetero rings]
G03G5/06D4B	. . . . .	[N: in the same being system]
G03G5/06D4B2	. . . . .	{7 dots} [N: containing two relevant rings]
G03G5/06D4B3	. . . . .	{7 dots} [N: containing three relevant rings]
G03G5/06D4B4	. . . . .	{7 dots} [N: containing four relevant rings]
G03G5/06D4B5	. . . . .	{7 dots} [N: containing five relevant rings]
G03G5/06D4B6	. . . . .	{7 dots} [N: containing six relevant rings]
G03G5/06D4B7	. . . . .	{7 dots} [N: containing seven relevant rings]
G03G5/06D4B9	. . . . .	{7 dots} [N: containing more than seven relevant rings]
G03G5/06D4D	. . . . .	[N: in different ring systems, each system containing at least one hetero ring]
G03G5/06F	. . . . .	[N: containing metal elements]
		[N: Note Alcoholates, phenates or organic acid salts of alkali or alkaline earth metals are classified as the parent compounds]
G03G5/06H	. . . . .	[N: Dyes]
G03G5/06H2	. . . . .	[N: containing a methine or polymethine group]
G03G5/06H2B	. . . . .	[N: containing only one methine or polymethine group]
G03G5/06H2B2	. . . . .	{7 dots} [N: containing hetero rings]
G03G5/06H2D	. . . . .	[N: containing two or more methine or polymethine groups]
G03G5/06H2D2	. . . . .	{7 dots} [N: containing hetero rings]
G03G5/06H4	. . . . .	[N: Azo dyes]
G03G5/06H4B	. . . . .	[N: Monoazo dyes]
G03G5/06H4D	. . . . .	[N: Disazo dyes]
G03G5/06H4D2	. . . . .	{7 dots} [N: containing hetero rings in the part of the molecule between the azo-groups]
G03G5/06H4D4	. . . . .	{7 dots} [N: containing polymethine or anthraquinone groups]
G03G5/06H4D4B	. . . . .	{8 dots} [N: containing hetero rings in the part of the molecule between the azo-groups] [C9505]
G03G5/06H4F	. . . . .	[N: Trisazo dyes]
G03G5/06H4F2	. . . . .	{7 dots} [N: containing hetero rings]
G03G5/06H4F4	. . . . .	{7 dots} [N: containing polymethine or anthraquinone groups]
G03G5/06H4F4B	. . . . .	{8 dots} [N: containing hetero rings]
G03G5/06H4H	. . . . .	[N: containing more than three azo groups]
G03G5/06H6	. . . . .	[N: Phthalocyanines]
G03G5/06K	. . . . .	[N: Compounds of unspecified structure characterised by a substituent only]
G03G5/07	. . . . .	Polymeric photoconductive materials
G03G5/07B	. . . . .	[N: obtained by reactions only involving carbon-to-carbon unsaturated bonds (G03G5/07S takes precedence)]
G03G5/07B2	. . . . .	[N: comprising pending carbazol groups]
G03G5/07D	. . . . .	[N: obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds (G03G5/07S takes precedence)]

- G03G5/07D2 [N: having a photoconductive moiety in the polymer backbone]
- G03G5/07S [N: comprising silicon atoms]
- G03G5/08 . . . characterised by the photoconductive material being inorganic
- G03G5/082 . . . and not being incorporated in a bonding material, e.g. vacuum deposited
- G03G5/082B [N: Selenium-based]
- G03G5/082C [N: Silicon-based]
- G03G5/082C2 [N: comprising one or two silicon based layers]
- G03G5/082C2B {7 dots} [N: at least one with varying composition]
- G03G5/082C4 [N: comprising three or four silicon-based layers]
- G03G5/082C4B {7 dots} [N: at least one with varying composition]
- G03G5/082C6 [N: comprising five or six silicon-based layers]
- G03G5/082C6B {7 dots} [N: at least one with varying composition]
- G03G5/082C8 [N: comprising seven or more silicon-based layers]
- G03G5/082C8B {7 dots} [N: at least one with varying composition]
- G03G5/082C10 [N: Depositing methods]
- G03G5/082D [N: Carbon-based (in ad mixture with Si [G03G5/082C](#))]
- G03G5/082E [N: Germanium-based (in ad mixture with Si [G03G5/082C](#))]
- G03G5/085 and being incorporated in an inorganic bonding material, e.g. glass-like layers
- G03G5/087 and being incorporated in an organic bonding material
- G03G5/09 . . . Sensitisors or activators, e.g. dyestuffs ([G03G5/12](#) takes precedence)
- G03G5/10 . . Bases for charge-receiving or other layers
- G03G5/10A . . [N: Paper bases ([G03G5/10B](#), [G03G5/10C](#), [G03G5/10D](#) take precedence)]
- G03G5/10B . . [N: consisting of or comprising metals]
- G03G5/10C . . [N: comprising inorganic material other than metals, e.g. salts, oxides, carbon]
- G03G5/10D . . [N: comprising electroconductive macromolecular compounds]
- G03G5/10D2 . . . [N: the electroconductive macromolecular compounds being cationic]
- G03G5/10D3 . . . [N: the electroconductive macromolecular compounds being anionic]
- G03G5/12 . . Recording members for multicolour processes
- G03G5/14 . . Inert intermediate or cover layers for charge-receiving layers ([G03G5/04](#) takes precedence)
- G03G5/14B . . [N: Inert intermediate layers]
- G03G5/14B2 . . . [N: comprising inorganic material]
- G03G5/147 . . Cover layers
- G03G5/147B . . . [N: comprising inorganic material]
- G03G5/147D . . . [N: comprising organic material]
- G03G5/147D2 [N: Macromolecular material]

[N: **Note**

In groups [G03G5/147D2](#) to [G03G5/147D2K](#), in the absence of an indication to the contrary, a polymer is classified in the last appropriate place]

G03G5/147D2B	. . . . .	[N: obtained by reactions only involving carbon-to-carbon unsaturated bonds]
G03G5/147D2B2	. . . . .	[N: Polyolefins; Polystyrenes; Waxes]
G03G5/147D2B4	. . . . .	[N: Halogenated polymers]
G03G5/147D2B6	. . . . .	[N: Polyvinylalcohol, polyallylalcohol; Derivatives thereof, e.g. polyvinylesters, polyvinylethers, polyvinylamines]
G03G5/147D2B8	. . . . .	[N: Polymers comprising at least one carboxyl radical, e.g. polyacrylic acid, polycrotonic acid, polymaleic acid; Derivatives thereof, e.g. their esters, salts, anhydrides, nitriles, amides]
G03G5/147D2B10	. . . . .	[N: Polymers containing hereto rings in the side chain]
G03G5/147D2B12	. . . . .	[N: Polymers derived from conjugated double bonds containing monomers, e.g. polybutadiene; Rubbers]
G03G5/147D2D	. . . . .	[N: obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds]
G03G5/147D2D2	. . . . .	[N: Polyesters]
G03G5/147D2D4	. . . . .	[N: Polycarbonates]
G03G5/147D2D6	. . . . .	[N: Other polycondensates comprising oxygen atoms in the main chain; Phenol resins]
G03G5/147D2D8	. . . . .	[N: Polyamides; Polyimides]
G03G5/147D2D10	. . . . .	[N: Other polycondensates comprising nitrogen atoms with or without oxygen atoms in the main chain]
G03G5/147D2D12	. . . . .	[N: Polycondensates comprising silicon atoms in the main chain]
G03G5/147D2D14	. . . . .	[N: Polycondensates comprising sulfur atoms in the main chain]
G03G5/147D2D16	. . . . .	[N: Cellulose and derivatives]
G03G5/147D2F	. . . . .	[N: Macromolecular compounds characterised by specific side-chain substituents or end groups]
G03G5/147D2H	. . . . .	[N: Macromolecular compounds characterised by their structure, e.g. block polymers, reticulated polymers, or by their chemical properties, e.g. by molecular weight or acidity]
G03G5/147D2K	. . . . .	[N: Macromolecular compounds characterised by their physical properties]
G03G5/153	. . . . .	Charge-receiving layers combined with additional photo- or thermo-sensitive, but not photoconductive, layers, e.g. silver-salt layers
G03G5/16	. . . . .	Layers for recording by changing the magnetic properties, e.g. for Curie-point-writing
G03G7/00		Selection of materials for use in image-receiving members, i.e. for reversal by physical contact; Manufacture thereof (photosensitive materials for photographic purposes G03C)
G03G7/00B	. . . . .	[N: Cover layers for image-receiving members; Strippable coversheets]
G03G7/00B2	. . . . .	[N: Inorganic components thereof]
G03G7/00B4	. . . . .	[N: Organic components thereof]
G03G7/00B4B	. . . . .	[N: being macromolecular]
G03G7/00B4B2	. . . . .	[N: Natural products or derivatives thereof, e.g. cellulose, proteins]
G03G7/00B4B4	. . . . .	[N: obtained by reactions only involving carbon-to-carbon unsaturated bonds]

- G03G7/00B4B6 [N: obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds]
- G03G7/00D . [N: Intermediate layers for image-receiving members]
- G03G7/00F . [N: Substrates for image-receiving members; Image-receiving members comprising only one layer]
- G03G7/00F2 . . [N: Inorganic components thereof]
- G03G7/00F4 . . [N: Organic components thereof]
- G03G7/00F4B . . . [N: being macromolecular]
- G03G7/00H . [N: Back layers for image-receiving members; Strippable backsheets]
- G03G7/00K . [N: Image-receiving members, based on materials other than paper or plastic sheets, e.g. textiles, metals] [N9505]

G03G8/00 Layers covering the final reproduction, e.g. for protecting, for writing thereon

G03G9/00 Developers

- G03G9/06 . the developer being electrolytic
- G03G9/08 . with toner particles
- G03G9/08B . . [N: Preparation methods]
- G03G9/08B2 . . . [N: whereby the components are brought together in a liquid dispersing medium] [C9505]
- G03G9/08B2B [N: whereby chemical synthesis of at least one of the toner components takes place] [N9502]
- G03G9/08B4 . . . [N: by dry mixing the toner components in solid or softened state] [N9502]
- G03G9/08B6 . . . [N: by mixing the toner components in a liquefied state; melt kneading; reactive mixing] [N9502][C9505]
- G03G9/08B8 . . . [N: Pretreatment of components] [N9502]
- G03G9/08B10 . . . [N: Post-treatment] [N9502]
- G03G9/08B12 . . . [N: Separation; Classifying] [N9502][C9505]
- G03G9/08D . . [N: characterised by the dimensions of the particles]
- G03G9/08P . . [N: characterised by physical parameters (magnetic parameters [G03G9/083](#))]
- G03G9/08P2 . . . [N: Electric parameters]
- G03G9/08S . . [N: characterised by their structure; characterised by non-homogeneous distribution of components (microcapsular toners [G03G9/093](#))] [C9702]
- G03G9/08T . . [N: characterised by their shape, e.g. degree of sphericity] [N9702]

Note

In groups [G03G9/083](#) to [G03G9/135](#), in the absence of an indication to the contrary, classification is made in the last appropriate place

- G03G9/083 . . Magnetic toner particles
- G03G9/083B . . . [N: Chemical composition of the magnetic components]
- G03G9/083B2 [N: Metals]

G03G9/083B4	. . . .	[N: Oxides]
G03G9/083B6	. . . .	[N: Non-magnetic inorganic compounds chemically incorporated in magnetic components]
G03G9/083D	. . .	[N: Magnetic parameters of the magnetic components]
G03G9/083E	. . .	[N: Other physical parameters of the magnetic components]
G03G9/083F	. . .	[N: Structural characteristics of the magnetic components, e.g. shape, crystallographic structure]
G03G9/083S	. . .	[N: Size of magnetic components]
G03G9/083T	. . .	[N: Treatment of the magnetic components; Combination of the magnetic components with non-magnetic materials (G03G9/083B6 takes precedence)]
G03G9/087	. .	Binders for toner particles
G03G9/087B	. . .	[N: comprising macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds]
G03G9/087B1	. . . .	[N: Polyalkenes]
G03G9/087B2	. . . .	[N: Polymers of alkenyl-aromatic compounds]
G03G9/087B2B	. . . . .	[N: Copolymers of styrene]
G03G9/087B2B2	. . . . .	[N: with esters of acrylic or methacrylic acid]
G03G9/087B3	. . . .	[N: Polyvinylhalogenides]
G03G9/087B3B	. . . . .	[N: containing chlorine, bromine or iodine]
G03G9/087B3B2	. . . . .	[N: Polyvinylchloride]
G03G9/087B3D	. . . . .	[N: containing fluorine]
G03G9/087B4	. . . .	[N: Polyvinylalcohols; Polyallylalcohols; Polyvinylethers; Polyvinylaldehydes; Polyvinylketones; Polyvinylketals]
G03G9/087B5	. . . .	[N: Polyvinylesters]
G03G9/087B6	. . . .	[N: Polymers of unsaturated acids or derivatives thereof]
G03G9/087B6B	. . . . .	[N: Polymers of esters]
G03G9/087B6D	. . . . .	[N: Polymers of nitriles]
G03G9/087B6F	. . . . .	[N: Polymers of unsaturated polycarboxylic acids]
G03G9/087B7	. . . .	[N: Polymers of unsaturated cyclic compounds having no unsaturated aliphatic groups in a side-chain, e.g. coumarone-indene resins]
G03G9/087B8	. . . .	[N: Polymers derived from conjugated dienes]
G03G9/087B9	. . . .	[N: Polymers comprising hetero rings in the side chains]
G03G9/087D	. . .	[N: comprising macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds]
G03G9/087D1	. . . .	[N: Polyacetals]
G03G9/087D2	. . . .	[N: Condensation polymers of aldehydes or ketones]
G03G9/087D2B	. . . . .	[N: Phenoplasts]
G03G9/087D2D	. . . . .	[N: Aminoplasts]
G03G9/087D3	. . . .	[N: Epoxyresins]
G03G9/087D4	. . . .	[N: Polyesters]
G03G9/087D5	. . . .	[N: Polycarbonates]
G03G9/087D6	. . . .	[N: Polyethers]
G03G9/087D7	. . . .	[N: Other polymers having oxygen as the only heteroatom in the main chain]
G03G9/087D8	. . . .	[N: Polyureas; Polyurethanes]

G03G9/087D9	. . . .	[N: Polyamides, e.g. polyesteramides]
G03G9/087D10	. . . .	[N: Other polymers having nitrogen in the main chain, with or without oxygen or carbon only]
G03G9/087D11	. . . .	[N: Polymers having sulfur in the main chain, with or without oxygen, nitrogen or carbon only]
G03G9/087D12	. . . .	[N: Polymers having silicon in the main chain, with or without sulfur, oxygen, nitrogen or carbon only]
G03G9/087F	. . . .	[N: Natural macromolecular compounds or derivatives thereof]
G03G9/087F1	. . . .	[N: Cellulose or derivatives thereof]
G03G9/087F2	. . . .	[N: Natural rubber]
G03G9/087F3	. . . .	[N: Waxes]
G03G9/087H	. . . .	[N: Macromolecular material not specially provided for in a single one of groups G03G9/087B to G03G9/087F]
G03G9/087H1	. . . .	[N: Graft polymers]
G03G9/087H2	. . . .	[N: Block polymers]
G03G9/087H3	. . . .	[N: characterised by the presence of specified groups or side chains] [C9602]
G03G9/087H4	. . . .	[N: Crosslinked polymers]
G03G9/087H5	. . . .	[N: characterised by their chemical properties, e.g. acidity, molecular weight, sensitivity to reactants] [N9602]
G03G9/087H6	. . . .	[N: characterised by their physical properties, e.g. viscosity, solubility, melting temperature, softening temperature, glass transition temperature] [N9602]
G03G9/09	. . .	Colouring agents for toner particles
G03G9/09B	. . . .	[N: Inorganic compounds]
G03G9/09B1	. . . .	[N: Carbon black]
G03G9/09D	. . . .	[N: Organic dyes]
G03G9/09D1	. . . .	[N: Anthracene dyes]
G03G9/09D2	. . . .	[N: Azo dyes]
G03G9/09D3	. . . .	[N: Indigoid; Diaryl and Triaryl methane; Oxyketone dyes]
G03G9/09D4	. . . .	[N: Acridine; Azine; Oxazine; Thiazine-; (Xanthene-) dyes]
G03G9/09D5	. . . .	[N: Quinoline; Polymethine dyes]
G03G9/09D6	. . . .	[N: Phthalocyanine dyes]
G03G9/09D7	. . . .	[N: Quinacridones]
G03G9/09D8	. . . .	[N: Formazane dyes; Nitro and Nitroso dyes; Quinone imides; Azomethine dyes]
G03G9/09D10	. . . .	[N: Dyes characterised by specific substituents]
G03G9/09F	. . . .	[N: characterised by physical or chemical properties]
G03G9/09H	. . . .	[N: Compounds capable to generate colouring agents by chemical reaction]
G03G9/093	. . .	Encapsulated toner particles
G03G9/093B	. . . .	[N: specified by the shell material]
G03G9/093B2	. . . .	[N: Macromolecular compounds]
G03G9/093B2B	. . . . .	[N: obtained by reactions only involving carbon-to-carbon unsaturated bonds]
G03G9/093B2D	. . . . .	[N: obtained otherwise than by reactions only involving carbon-to-carbon

				unsaturated bonds]
G03G9/093B4	.	.	.	[N: Non-macromolecular organic compounds]
G03G9/093B6	.	.	.	[N: Inorganic compounds]
G03G9/093D	.	.	.	[N: specified by the core material]
G03G9/093D2	.	.	.	[N: Macromolecular compounds]
G03G9/093D2B	.	.	.	[N: obtained by reactions only involving carbon-to-carbon unsaturated bonds]
G03G9/093D2D	.	.	.	[N: obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds]
G03G9/093D4	.	.	.	[N: Non-macromolecular organic compounds]
G03G9/093D6	.	.	.	[N: Inorganic compounds]
G03G9/093F	.	.	.	[N: Preparation thereof]
G03G9/097	.	.		Plasticisers; Charge controlling agents
G03G9/097B	.	.	.	[N: Inorganic compounds]
G03G9/097B1	.	.	.	[N: treated with organic compounds]
G03G9/097B3	.	.	.	[N: Silicon-oxides; Silicates] [N9704]
G03G9/097D	.	.	.	[N: Organic compounds (G03G9/087F3 takes precedence)]
G03G9/097D1	.	.	.	[N: cationic]
G03G9/097D2	.	.	.	[N: anionic]
G03G9/097D3	.	.	.	[N: comprising a heterocyclic ring]
G03G9/097D4	.	.	.	[N: comprising fluorine]
G03G9/097D6	.	.	.	[N: containing atoms other than carbon, hydrogen or oxygen (G03G9/097D1 to G03G9/097D4 take precedence)] [N9602]
G03G9/097F	.	.	.	[N: Organo-metallic compounds]
G03G9/097F1	.	.	.	[N: Metallic soaps of higher carboxylic acids]
G03G9/10	.	.		characterised by carrier particles
G03G9/107	.	.	.	having magnetic components
G03G9/107B	.	.	.	[N: Carrier particles having a multi-layered structure; Carrier particles comprising a core] [N9603]
G03G9/113	.	.	.	having coatings applied thereto
G03G9/113B	.	.	.	[N: Coating methods; Structure of coatings]
G03G9/113D	.	.	.	[N: Macromolecular components of coatings]
G03G9/113D2	.	.	.	[N: obtained by reactions only involving carbon-to-carbon unsaturated bonds]
G03G9/113D2B	.	.	.	[N: containing fluorine atoms]
G03G9/113D4	.	.	.	[N: obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds]
G03G9/113D4B	.	.	.	[N: containing silicon atoms]
G03G9/113D6	.	.	.	[N: being crosslinked]
G03G9/113F	.	.	.	[N: Non-macromolecular organic components of coatings]
G03G9/113H	.	.	.	[N: Inorganic components of coatings]
G03G9/12	.	.		in liquid developer mixtures
G03G9/12B	.	.	.	[N: characterised by the colouring agents]
G03G9/125	.	.	.	characterised by the liquid

- G03G9/13 . . . characterised by polymer components
- G03G9/13B [N: obtained by reactions only involving carbon-to-carbon unsaturated bonds]
- G03G9/13D [N: obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds]
- G03G9/13F [N: Graft-or block polymers]
- G03G9/135 . . . characterised by stabiliser or charge-controlling agents
- G03G9/135B [N: Ionic, organic compounds]
- G03G9/16 . Developers not provided for in groups [G03G9/06](#) to [G03G9/135](#), e.g. solutions, aerosols
- G03G9/18 . . Differentially wetting liquid developers
- G03G11/00 Selection of substances for use as fixing agents**
- G03G13/00 Electrographic processes using a charge pattern ([G03G15/00](#), [G03G16/00](#), [G03G17/00](#) take precedence)**

[N: **Note**
Group [G03G15/00](#) also deals with processes in so far as they are characterised by the use or manipulation of apparatus classifiable per se in group [G03G15/00](#) and therefor takes precedence
]
- G03G13/01 . for multicoloured copies [N: (colour correction on photography [G03B27/72B](#); picture communication systems [H04N1/46](#))] [C9409]
- G03G13/01D . . [N: characterised by the developing step, e.g. the properties of the colour developers] [N0002]
- G03G13/01P . . [N: in which the colour powder image is formed directly on the recording material, e.g. DEP methods] [N0002]
- G03G13/02 . Sensitising, i.e. laying-down a uniform charge (devices for corona discharge per se [H01T19/00](#))
- G03G13/02A . . [N: by contact, friction or induction] [N9801]
- G03G13/04 . Exposing, i.e. imagewise exposure by optically projecting the original image on a photoconductive recording material
- G03G13/045 . . Charging or discharging distinct portions of the charge pattern on the recording material, e.g. discharging non-image areas, contrast enhancement ([G03G13/34](#), [G03G15/36](#), [G03G21/06](#) take precedence)
- G03G13/05 . Imagewise charging, i.e. laying-down a charge in the configuration of an original image using a modulated stream of charged particles, e.g. of corona ions, modulated by a photoconductive control screen bearing a charge pattern or by optically activated charging means (using charging means controlled by electric image signals [B41J](#))
- G03G13/054 . using X-rays, e.g. electroradiography
- G03G13/056 . using internal polarisation
- G03G13/06 . Developing

- G03G13/08 . . . using a solid developer, e.g. powder developer
- G03G13/09 using magnetic brush
- G03G13/095 Removing excess solid developer
- G03G13/10 . . . using a liquid developer, [N: e.g. liquid suspension]
- G03G13/11 Removing excess liquid developer, e.g. by heat

- G03G13/14 . Transferring a pattern to a second base
- G03G13/16 . . . of a toner pattern, e.g. a powder pattern
- G03G13/18 . . . of a charge pattern

- G03G13/20 . Fixing, e.g. by using heat

- G03G13/22 . Processes involving a combination of more than one step according to groups [G03G13/02](#) to [G03G13/20](#) ([G03G13/01](#) takes precedence)
- G03G13/23 . . . specially adapted for copying both sides of an original or for copying on both sides of a recording or image-receiving material
- G03G13/24 . . . whereby at least two steps are performed simultaneously

- G03G13/26 . for the production of printing plates for non-xerographic printing processes
- G03G13/28 . . . Planographic printing plates
- G03G13/28B [N: obtained by a process including the transfer of a toned image, i.e. indirect process] [N9604]
- G03G13/28D [N: for dry lithography]
- G03G13/30 . . . Hectographic masters
- G03G13/32 . . . Relief printing plates

- G03G13/34 . Editing, i.e. producing a composite image by copying one or more original images or parts thereof

G03G15/00 **Apparatus for electrographic processes using a charge pattern** ([G03G16/00](#), [G03G17/00](#) take precedence; [N: xerographic printers for data processors per se [G06K15/14](#)])

Note

This group covers also processes in so far as they are characterised by the use or manipulation of apparatus classifiable per se in this group.

[N: **Note**

Groups [G03G15/00F](#), [G03G15/00G](#), [G03G15/00J](#) mostly cover details which are classifiable in more general groups, e.g. G03B, B41, B65H, and which are however described in connection with G03G

]

[N: **WARNING** [N1202]

1. Groups [G03G15/50](#)-[G03G15/80](#) do not correspond to former or current IPC groups. Concordance ECLA: IPC for those groups is as follows -[G03G15/50](#) to [G03G15/80](#) : [G03G15/00](#)

2. Groups [G03G15/00C](#) to [G03G15/00P](#) are no longer used for the classification of new documents as from February, 1 2012. The backfile is progressively being transferred to new groups as it follows [G03G15/00C](#): [G03G15/50](#) [G03G15/00D](#) : [G03G15/55](#) [G03G15/00F](#): [G03G15/60](#) [G03G15/00G](#) : [G03G15/65](#) [G03G15/00H](#): [G03G15/70](#)

[G03G15/00J](#) : [G03G15/75](#) [G03G15/00P](#): [G03G15/80](#)
]

- [G03G15/01](#) . For producing multicoloured copies [N: (colour correction in photography [G03C](#); colour correction in printing plate production)]
- [G03G15/01D](#) . . [N: Details of unit]
- [G03G15/01D4](#) . . . [N: for exposing]
- [G03G15/01D4H](#) [N: and forming a half-tone image]
- [G03G15/01D6](#) . . . [N: for developing]
- [G03G15/01D8](#) . . . [N: using a solid developer]
- [G03G15/01D14](#) . . . [N: for transferring a pattern to a second base]
- [G03G15/01D14S](#) [N: transfer member separable from recording member or vice versa, mode switching] [N1202]

[N: **WARNING**

[N1202]Group [G03G15/01D14S](#) is not complete, pending reorganisation.
See also [G03G15/01D14](#)

]

- [G03G15/01S](#) . . [N: Structure of complete machines]
- [G03G15/01S1](#) . . . [N: using a single reusable electrographic recording member] [C9512]
- [G03G15/01S1B](#) [N: onto which the monocolour toner images are superposed before common transfer from the recording member] [C9512]
- [G03G15/01S1B1](#) [N: with special treatment between monocolour image formation]
- [G03G15/01S1B2](#) [N: primary transfer to the final recording medium] [N1202]

[N: **WARNING**

[N1202]Groups [G03G15/01S1B2](#) to [G03G15/01S1B4](#) are not complete pending reorganisation. See also [G03G15/01S1-G03G15/01S1B1](#)

]

- [G03G15/01S1B3](#) [N: single rotation of recording member to produce multicoloured copy ([G03G15/01S1B2](#) takes precedence)] [N1202]
- [G03G15/01S1B4](#) [N: plural rotations of recording member to produce multicoloured copy, e.g. rotating set of developing units ([G03G15/01S1B2](#) takes precedence)] [N1202]
- [G03G15/01S2](#) . . . [N: using more than one reusable electrographic recording member, e.g. one for every monocolour image] [C9512]
- [G03G15/01S2D](#) [N: at least one recording member having plural associated developing units] [N1202]

[N: **WARNING**

[N1202]Groups [G03G15/01S2D](#) to [G03G15/01S2M](#) are not complete pending reorganisation. See also [G03G15/01S2](#)

]

- [G03G15/01S2H](#) [N: primary transfer to an intermediate transfer belt ([G03G15/01S2D](#) takes precedence)] [N1202]
- [G03G15/01S2M](#) [N: primary transfer to the final recording medium ([G03G15/01S2D](#) takes precedence)] [N1202]
- [G03G15/02](#) . for laying down a uniform charge, e.g. for sensitising; Corona discharge devices

G03G15/14 takes precedence) [C9409]

- G03G15/02A . . [N: by contact, friction or induction, e.g. liquid charging apparatus] [C9801]
- G03G15/02A1 . . . [N: by bringing a charging member into contact with the member to be charged, e.g. roller, brush chargers] [N9801]
- G03G15/02A1C [N: provided with means for cleaning the charging member] [N9801]
- G03G15/02A1D [N: Structure, details of the charging member, e.g. chemical composition, surface properties] [N9801]
- G03G15/02A2 . . . [N: by bringing charging powder particles into contact with the member to be charged, e.g. by means of a magnetic brush] [N9801]
- G03G15/02A3 . . . [N: by bringing a charging member in the vicinity with the member to be charged, e.g. proximity charging, forming micro gap] [N1202]
- G03G15/02B . . [N: provided with means for the maintenance of the charging apparatus, e.g. cleaning devices, ozone removing devices [G03G15/02A1C](#), [N: [G03G15/02W](#) takes precedence] [C1202]
- G03G15/02C . . [N: Arrangements for controlling the amount of charge]
- G03G15/02D . . [N: Arrangements for controlling the area of the photoconductor to be charged]
- G03G15/02E . . [N: Arrangements for supplying power to the sensitising device]
- G03G15/02W . . [N: corona discharge devices, e.g. wires, pointed electrodes, means for cleaning the corona discharge device] [N1202]

[N: **WARNING**

[N1202]Groups [G03G15/02W](#) and [G03G15/02A3](#) are not complete pending reorganisation. See also [G03G15/02-G03G15/02B](#)
]

- G03G15/04 . for exposing, i.e. imagewise exposure by optically projecting the original image on a photoconductive recording material [C1202]

[N: **Notes**

[N1202]the original image is obtained by direct optical projection or received from other sources, e.g. by computer modified or generated image data, by scanning , e.g. digital copiers
]

- G03G15/04A . . [N: by forming an intermediate temporary image projected one or more times] [N9512]
- G03G15/04C . . [N: Image composition, e.g. adding or superposing informations on the original image ([composition of facsimile picture signals H04N1/387](#))]
- G03G15/04H . . [N: and forming half-tone image] [N9412]
- G03G15/04L . . [N: Details of illuminating systems, e.g. lamps, reflectors ([lamp housings for copying cameras, reflex exposure lighting G03B27/54C](#))]
- G03G15/04L1 . . . [N: for exposing image information provided otherwise than by directly projecting the original image onto the photoconductive recording material, e.g. digital copiers ([G03G15/041](#), [G03G15/043](#) [take precedence](#))] [N1202]

[N: **WARNING**

[N1202]Groups [G03G15/04L1A](#) to [G03G15/04L2](#) are not complete pending reorganisation. See also [G03G15/04](#), [G03G15/04L](#), [G03G15/043](#), [G03G15/043A](#) and [G03G15/32L](#)
]

- G03G15/04L1A [N: by LED arrays] [N1202]
- G03G15/04L1E [N: by EL-bars] [N1202]

- G03G15/04L1L [N: by laser] [N1202]
- G03G15/04L2 . . . [N: Exposure from behind the photoconductive surface] [N1202]
- G03G15/04P . . [N: Details of projection optics (for projection printing apparatus [G03B27/52P](#))] [N9512]
- G03G15/041 . . with variable magnification [N9412]
- G03G15/041E . . . [N: and means for controlling illumination or exposure] [N9512]
- G03G15/043 . . with means for controlling illumination or exposure ([G03G15/041](#) takes precedence) [N9412]
- G03G15/043A . . . [N: by introducing an optical element in the optical path, e.g. a filter] [N9512]
- G03G15/045 . . with means for charging or discharging distinct portions of the charge pattern on the recording material, e.g. for contrast enhancement or discharging non-image areas ([G03G15/36](#), [G03G21/06](#) take precedence) [N9412]
- G03G15/047 . . . for discharging non-image areas [N9412]
- G03G15/05 . for imagewise charging, e.g. photoconductive control screen, optically activated charging means (charging means controlled by electric image signals [B41J](#)) [N9409]
- G03G15/05A . . [N: by modulating an ion flow through a photoconductive screen onto which a charge image has been formed] [N9507]
- G03G15/05A1 . . . [N: Details and conditioning means of the screen, e.g. cleaning means, ozone removing means] [N9507]
- G03G15/054 . using X-rays, e.g. electroradiography [N9412]
- G03G15/054A . . [N: Ionography, i.e. X-rays induced liquid or gas discharge] [N9412] [C9502]
- G03G15/056 . using internal polarisation [C9512]
- G03G15/06 . for developing
- G03G15/06C . . [N: Arrangements for controlling the potential of the developing electrode]
- G03G15/08 . . using a solid developer, e.g. powder developer
- G03G15/08C . . . [N: for cascading]
- G03G15/08D . . . [N: in a powder cloud]
- G03G15/08E . . . [N: on a brush ([G03G15/09](#) takes precedence)]
- G03G15/08F . . . [N: on a donor element, e.g. belt, roller (complete developer unit [G03G15/08S](#))] [C9610]
- G03G15/08F1 [N: characterised by the developer supplying means, e.g. structure of developer supply roller] [N9602]
- G03G15/08F2 [N: characterised by the developer handling means after the supply and before the regulating, e.g. means for preventing developer blocking] [N9602]
- G03G15/08F3 [N: characterised by the developer regulating means, e.g. structure of doctor blade] [N9602]
- G03G15/08F4 [N: characterised by means in the developing zone having an interaction with the image carrying member, e.g. distance holders] [N9602]
- G03G15/08F5 [N: characterised by the developer handling means after the developing zone and before the supply, e.g. developer recovering roller] [N9602]
- G03G15/08F6 [N: characterised by the lateral sealing at both sides of the donor member with respect to the developer carrying direction] [N9602]
- G03G15/08F7 [N: characterised by the structure of the donor member, e.g. surface properties] [N9602]

G03G15/08G	. . .	[N: for immersion]
G03G15/08H	. . .	[N: Arrangements for preparing, mixing, supplying or dispensing developer] [C9602]
G03G15/08H1	. . . .	[N: Detection or control means for the toner concentration]
G03G15/08H1E	. . . . .	[N: the concentration being measured by electrical means]
G03G15/08H1L	. . . . .	[N: the concentration being measured by optical means]
G03G15/08H1M	. . . . .	[N: the concentration being measured by magnetic means]
G03G15/08H2	. . . .	[N: Detection means for the toner level]
G03G15/08H3	. . . .	[N: Arrangements for supplying new toner; Toner cartridges]
G03G15/08H3B	. . . . .	[N: Toner cartridges fulfilling a continuous function within the electrographic apparatus during the use of the supplied developer material, e.g. toner discharge on demand, storing residual toner, not acting as a passive closure for the developer replenishing opening] [N9610]
G03G15/08H3C	. . . . .	[N: Toner cartridges having a longitudinal rotational axis, around which at least one part is rotated when mounting or using the cartridge (G03G15/08H3B takes precedence)] [N9610]
G03G15/08H3C1	. . . . .	[N: the toner cartridges being generally horizontally mounted parallel to its longitudinal rotational axis] [N9610]
G03G15/08H3D	. . . . .	[N: Arrangements for metering and dispensing toner into the development sump; Toner hoppers; Augers]
G03G15/08H3P	. . . . .	[N: Toner cartridges using a peelable sealing film (resealing used developer units before refilling G03G15/08R)] [C9610]
G03G15/08H3R	. . . . .	[N: Toner cartridges using a sealing film to be ruptured or cut] [C9610]
G03G15/08H4	. . . .	[N: Arrangements for purging used developer from the developing unit]
G03G15/08H5	. . . .	[N: Arrangements for conditioning developer in the developing sump, e.g. removing impurities or humidity]
G03G15/08H6	. . . .	[N: Arrangements for testing or measuring developer properties or quality, e.g. charge, size, flowability]
		[N: WARNING [N1202] G03G15/08H6 to G03G15/08H6L3 are not complete pending reorganisation. See also G03G15/08H-G03G15/08H2]
G03G15/08H6C	. . . . .	[N: Detection or control means for the developer concentration] [N1202]
G03G15/08H6C1	. . . . .	[N: the concentration being measured by electrical means] [N1202]
G03G15/08H6C2	. . . . .	[N: the concentration being measured by magnetic means] [N1202]
G03G15/08H6C3	. . . . .	[N: the concentration being measured by optical means] [N1202]
G03G15/08H6L	. . . . .	[N: Detection or control means for the developer level] [N1202]
G03G15/08H6L1	. . . . .	[N: the level being measured by mechanical means] [N1202]
G03G15/08H6L2	. . . . .	[N: the level being measured by electro-magnetic means] [N1202]
G03G15/08H6L3	. . . . .	[N: the level being measured by optical means] [N1202]
G03G15/08H7	. . . .	[N: provided with identifying means or means for storing process- or use parameters, e.g. an electronic memory] [N1202]
G03G15/08H33	. . . .	[N: Arrangements for supplying new developer] [N1202]

[N: **WARNING**
[N1202] Groups [G03G15/08H35](#) to [G03G15/08H37S3](#) are not complete

				pending reorganisation. See also G03G15/08H3-G03G15/08H3R]
G03G15/08H33C	.	.	.	[N: cylindrical developer cartridges, e.g. toner bottles for the developer replenishing opening] [N1202]
G03G15/08H33C1	.	.	.	[N: Toner cartridges fulfilling a continuous function within the electrographic apparatus during the use of the supplied developer material, e.g. toner discharge on demand, storing residual toner, acting as an active closure for the developer replenishing opening] [N1202]
G03G15/08H33C2	.	.	.	[N: Developer cartridges having a longitudinal rotational axis, around which at least one part is rotated when mounting or using the cartridge (G03G15/08H3B takes precedence)] [N1202]
G03G15/08H33C2B	.	.	.	{ 7 dots } [N: the developer cartridges being generally horizontally mounted parallel to its longitudinal rotational axis] [N1202]
G03G15/08H33F	.	.	.	[N: non-rigid containers, e.g. foldable cartridges, bags] [N1202]
G03G15/08H33K	.	.	.	[N: cartridges having a box like shape] [N1202]
G03G15/08H35	.	.	.	[N: Arrangements for metering and dispensing developer from a developer cartridge into the development unit] [N1202]
G03G15/08H35B	.	.	.	[N: for dispensing developer from a developer cartridge not directly attached to the development unit] [N1202]
G03G15/08H35D	.	.	.	[N: Sealing of developer cartridges] [N1202]
G03G15/08H35D1	.	.	.	[N: by a peelable sealing film (resealing used developer units before refilling: G03G15/08R)] [N1202]
G03G15/08H35D2	.	.	.	[N: by a sealing film to be ruptured or cut] [N1202]
G03G15/08H35D3	.	.	.	[N: by mechanical means, e.g. shutter, plug] [N1202]
G03G15/08H37	.	.	.	[N: Arrangements for conveying and conditioning developer in the developing unit, e.g. agitating, removing impurities or humidity] [N1202]
				[N: WARNING [N1202]Groups G03G15/08H37-G03G15/08H37D1 is not complete pending reorganisation. See also G03G15/08H5]
G03G15/08H37B	.	.	.	[N: for agitation or stirring] [N1202]
G03G15/08H37D	.	.	.	[N: for conveying or circulating developer, e.g. augers] [N1202]
G03G15/08H37D1	.	.	.	[N: in a closed loop within the sump of the developing device] [N1202]
G03G15/08R	.	.	.	[N: Reconditioning of the developer unit, i.e. reusing or recycling parts of the unit, e.g. resealing of the unit before refilling with toner] [N9607]
G03G15/08S	.	.	.	[N: Arrangements or disposition of the complete developer unit or parts thereof [N: not provided for by groups G03G15/08 to G03G15/08R] [C1202]
G03G15/08S1	.	.	.	[N: for preventing toner scattering during operation, e.g. seals (sealing the donor member G03G15/08F6 ; sealing the magnetic brush G03G15/09S)] [C9707]
G03G15/09	.	.	.	using magnetic brush
G03G15/09B	.	.	.	[N: with bias voltage (G03G15/06C takes precedence)]
G03G15/09D	.	.	.	[N: with a one-component toner]
G03G15/09E	.	.	.	[N: Details concerning the magnetic brush roller structure, e.g. magnet configuration]
G03G15/09E1	.	.	.	[N: relating to the shell, e.g. structure, composition]

G03G15/09E2	. . . . .	[N: relating to bearings or driving mechanism]
G03G15/09S	. . . . .	[N: with means for preventing toner scattering from the magnetic brush, e.g. magnetic seals] [N9707]
G03G15/095	. . .	Removing excess solid developer [N: ,e.g. fog preventing] [N9412]
G03G15/10	. .	using a liquid developer
G03G15/10C	. . .	[N: for wetting the recording material]
G03G15/10C1	. . . . .	[N: for differentially wetting the recording material (developers for differentially wetting G03G9/18)]
G03G15/10D	. . .	[N: Preparing, mixing, transporting or dispensing developer]
G03G15/10D1	. . . . .	[N: Detection or control means for the toner concentration]
G03G15/10F	. . .	[N: Condensing developer fumes (G03G15/11 takes precedence)]
G03G15/10I	. . .	[N: with which the recording material is brought in contact, e.g. immersion or surface immersion development]
G03G15/11	. . .	Removing excess liquid developer, e.g. by heat [N9412]
G03G15/14	. .	for transferring a pattern to a second base
G03G15/16	. .	of a toner pattern, e.g. a powder pattern, [N: e.g. magnetic transfer] [C9701]
G03G15/16A	. . .	[N: using at least one intermediate support (G03G15/16B takes precedence)]
G03G15/16A1	. . . . .	[N: with means for handling the intermediate support, e.g. heating, cleaning, coating with a transfer agent]
G03G15/16A2	. . . . .	[N: relating to the driving mechanism for the intermediate support, e.g. gears, couplings, belt tensioning] [N1202]
		[N: WARNING [N1202]Groups G03G15/16A2 and G03G15/16A3 are not complete pending reorganisation. See also G03G15/16A-G03G15/16A1]
G03G15/16A3	. . . . .	[N: details of the the intermediate support, e.g. chemical composition] [N1202]
G03G15/16B	. . .	[N: on a base other than paper]
G03G15/16E	. . .	[N: using the force produced by an electrostatic transfer field formed between the second base and the electrographic recording member, e.g. transfer through an air gap] [N9701]
G03G15/16E1	. . . . .	[N: the field being produced by laying down an electrostatic charge behind the base or the recording member, e.g. by a corona device] [N9701]
G03G15/16E1B	. . . . .	[N: the second base being a continuous paper band, e.g. a CFF] [N9701]
G03G15/16E1C	. . . . .	[N: Arrangements for controlling the amount of charge] [N9701]
G03G15/16E1G	. . . . .	[N: Arrangements for supporting or transporting the second base in the transfer area, e.g. guides] [N9701]
G03G15/16E1G1	. . . . .	[N: comprising a rotatable holding member to which the second base is attached or attracted, e.g. screen transfer holding drum] [N9701]
G03G15/16E1G1C	. . . . .	{7 dots} [N: with means for conditioning the holding member, e.g. cleaning] [N9701]
G03G15/16F	. . .	[N: by introducing the second base in the nip formed by the recording member and at least one transfer member, e.g. in combination with bias or heat] [N9701]
G03G15/16F1	. . . . .	[N: at least one of the recording member or the transfer member being rotatable during the transfer] [N9701]
G03G15/16F1B	. . . . .	[N: with means for controlling the bias applied in the transfer nip] [N9701]

G03G15/16F1C	. . . . .	[N: with means for conditioning the transfer element, e.g. cleaning] [N9701]
G03G15/16F1D	. . . . .	[N: Structure, details of the transfer member, e.g. chemical composition] [N9701]
G03G15/16P	. . .	[N: with means for preconditioning the toner image before the transfer (G03G15/095 and G03G15/11 take precedence)] [C9509]
G03G15/16R	. . .	[N: with means for preconditioning the paper base before the transfer]
G03G15/18	. .	of a charge pattern
G03G15/20	. .	for fixing, e.g. by using heat [C9412]
G03G15/20H	. .	[N: using heat]
G03G15/20H1	. . .	[N: using radiant heat, e.g. infra-red lamps, microwave heaters]
G03G15/20H1F	. . . .	[N: of high intensity and short duration, i.e. flash fusing]
G03G15/20H2	. . .	[N: using contact heat]
G03G15/20H2B	. . . .	[N: Structural details of the fixing unit in general, e.g. cooling means, heat shielding means (G03G15/20H2D takes precedence)] [N1202]
<p>[N: WARNING [N1202]Groups G03G15/20H2B to G03G15/20H2C5 are not complete pending reorganisation. See also G03G15/20H2P -G03G15/20H2P5]</p>		
G03G15/20H2B1	. . . . .	[N: Plurality of separate fixing and/or cooling areas or units, two step fixing] [N1202]
G03G15/20H2B3	. . . . .	[N: with special means for lubricating and/or cleaning the fixing unit, e.g. applying offset preventing fluid] [N1202]
G03G15/20H2B5	. . . . .	[N: with means for handling the copy material in the fixing nip, e.g. introduction guides, stripping means] [N1202]
G03G15/20H2B7	. . . . .	[N: Retractable heating or pressure unit] [N1202]
G03G15/20H2B7A	. . . . .	[N: for maintenance purposes, e.g. for removing a jammed sheet] [N1202]
G03G15/20H2C	. . . . .	[N: with means for controlling the fixing temperature] [N1202]
G03G15/20H2C1	. . . . .	[N: specially for the axial heat partition] [N1202]
G03G15/20H2C3	. . . . .	[N: specially for the influence of heat loss, e.g. due to the contact with the copy material or other roller] [N1202]
G03G15/20H2C5	. . . . .	[N: specially for the mode of operation, e.g. standby, warming-up, error (G03G15/20H2C3 takes precedence)] [N1202]
G03G15/20H2D	. . . . .	[N: Structural details of heat elements, e.g. structure of roller or belt, eddy current, induction heating] [C1202]
G03G15/20H2D1	. . . . .	[N: relating to the chemical composition of the heat element and layers thereof] [C1202]
G03G15/20H2E	. . . . .	[N: Structural details or chemical composition of the pressure elements and layers thereof] [N1202]
G03G15/20H2P	. . . . .	[N: combined with pressure]
G03G15/20H2P1	. . . . .	[N: with retractable fixing or pressure unit]
G03G15/20H2P1M	. . . . .	[N: for maintenance purpose, e.g. for removing a jammed sheet]
G03G15/20H2P2	. . . . .	[N: with special means for lubricating and/or cleaning the fuser unit, e.g. applying offset preventing fluid]
G03G15/20H2P3	. . . . .	[N: with means for controlling and/or regulating the fixing temperature]

- G03G15/20H2P3A [N: specially the axial heat repartition]
- G03G15/20H2P4 [N: with means for handling the copy material in the fuser nip, e.g. introduction guides, stripping means]
- G03G15/20H2P5 [N: Details of pressure units, e.g. structure]
- G03G15/20P . . . [N: using pressure only]
- G03G15/20S . . . [N: using a solvent]

- G03G15/22 . . . involving the combination of more than one step according to groups [G03G13/02](#) to [G03G13/20](#) ([G03G15/01](#) takes precedence)
- G03G15/22A . . . [N: Machines other than electrographic copiers, e.g. electrophotographic cameras, electrostatic typewriters]
- G03G15/22A1 . . . [N: Machines for handling xeroradiographic images, e.g. xeroradiographic processors]
- G03G15/22A2 . . . [N: Machines for handling microimages, e.g. microfilm copiers]
- G03G15/22A3 . . . [N: Machines for forming tactile or three dimensional images by electrographic means, e.g. braille, 3d printing] [N1202]

- [N: **WARNING**
[N1202]Group [G03G15/22A3](#) is not complete pending reorganisation. See also [G03G15/22A](#)
]
- G03G15/22C . . . [N: using contact-printing]
- G03G15/22D . . . [N: where the image is formed on a dielectric layer covering the photoconductive layer] [N9507]
- G03G15/22D1 . . . [N: the length of the inner surface of the dielectric layer being greater than the length of the outer surface of the photoconductive layer] [N9507]
- G03G15/22M . . . [N: the process involving the formation of a master, e.g. photocopy-printer machines]
- G03G15/23 . . . specially adapted for copying both sides of an original or for copying on both sides of a recording or image-receiving material [N9412]
- G03G15/23B . . . [N: Arrangements for copying on both sides of a recording or image-receiving material] [N9701] [C0103]
- G03G15/23B1 [N: using a single reusable electrographic recording member] [N0103]
- G03G15/23B1R [N: by inverting and refeeding the image receiving material with an image on one face to the recording member to transfer a second image on its second face, e.g. by using a duplex tray; Details of duplex trays or inverters] [N0103]
- G03G15/23B1R1 [N: the image receiving member being preconditioned before transferring the second image, e.g. decurled, or the second image being formed with different operating parameters, e.g. a different fixing temperature] [N0103]
- G03G15/23B1R2 [N: the image receiving member being in form of a continuous web ([G03G15/23B1R1](#) takes precedence)] [N0103]
- G03G15/23B2 [N: using more than one reusable electrographic recording member, e.g. single pass duplex copiers] [N0103]
- G03G15/24 . . . whereby at least two steps are performed simultaneously [C9409]
- G03G15/26 . . . in which the charge pattern is obtained by projection of the entire image, i.e. whole-frame projection ([G03G15/04](#) takes precedence) [C9412]
- G03G15/26B . . . [N: using a reusable recording medium in form of a band]
- G03G15/26C . . . [N: using a reusable recording medium in form of a plate or a sheet]

- G03G15/28 . . in which projection is obtained by line scanning ([G03G15/04 takes precedence](#)) [C9412]
- G03G15/28B . . . [N: using a reusable recording medium in form of a band]
- G03G15/28C . . . [N: using a reusable recording medium in form of a plate or a sheet]
- G03G15/30 . . . in which projection is formed on a drum
- G03G15/30A [N: with arrangements for copying different kinds of originals, e.g. sheets, books]
- G03G15/30B [N: with special means to synchronize the scanning optic to the operation of other parts of the machine, e.g. photoreceptor, copy paper]
- G03G15/30C [N: with more than one photoconductor revolution for each copying cycle]
- G03G15/32 . . in which the charge pattern is formed dotwise, [N: e.g. by a thermal head] ([G03G15/04](#), [G03G15/05](#), [G03G15/34 take precedence](#)) [C9412]
- G03G15/32C . . . [N: by charge transfer onto the recording material in accordance with the image] [N9409]
- G03G15/32C1 [N: by modulating charged particles through holes or a slit] [N9412]
- G03G15/32C2 [N: using a stylus or a multi-styli array] [N9412]
- G03G15/32L [N: by application of light, e.g. using a LED array] [N9409]
- G03G15/32L1 [N: using a CRT] [N9409]
- G03G15/34 . . in which the powder image is formed directly on the recording material, [N: e.g. by using a liquid toner] [N9409] [C9412]
- G03G15/34P . . . [N: by forming a uniform powder layer and then removing the non-image areas] [N9412]
- G03G15/34S . . . [N: by selectively transferring the powder to the recording medium, e.g. by using a LED array] [N9412] [C9509]
- G03G15/34S1 [N: by modulating the powder through holes or a slit] [N9509]
- G03G15/34S2 [N: using a stylus or a multi-styli array] [N9509]
- G03G15/36 . Editing, i.e. producing a composite image by copying one or more original images or parts thereof [N9412]
- G03G15/50 . [N: Machine control of apparatus for electrographic processes using a charge pattern, e.g. regulating different parts of the machine, multimode copiers, microprocessor control ([sequencing control G03G21/14](#))] [N1201]
- G03G15/50B . . [N: Power supply control, e.g. power-saving mode, automatic power turn-off] [N1201]
- G03G15/50C . . [N: Driving control for rotary photosensitive medium, e.g. speed control, stop position control] [N1201]
- G03G15/50D . . [N: Priority interrupt; Job recovery, e.g. after jamming or malfunction] [N1201]
- G03G15/50F . . [N: User-machine interface; Display panels; Control console] [N1201]
- G03G15/50F2 . . . [N: relating to the structure of the control menu, e.g. pop-up menus, help screens] [N1201]
- [N: **WARNING** [N1201]
Group [G03C15/50F2](#) is not complete, pending reorganisation, see also [G03G145/50F](#)
]
- G03G15/50G . . [N: by measuring the original characteristics, e.g. contrast, density] [N1201]
- G03G15/50H . . [N: by measuring the copy material characteristics, e.g. weight, thickness] [N1201]

- G03G15/50K
 - . . [N: by measuring the photoconductor characteristics, e.g. temperature, or the characteristics of an image on the photoconductor] [N1201]
- G03G15/50K2
 - . . . [N: the characteristics being an electrical parameter, e.g. voltage] [N1201]
- G03G15/50K4
 - . . . [N: Detecting a toner image, e.g. density, toner coverage, using a test patch ([G03G15/55B](#) takes precedence)] [N1201]

[N: **WARNING** [N1201]
Groups [G03G15/50K4](#) to [G03G15/50K8](#) are not complete, pending reorganisation. See also [G03G15/50K](#)]
- G03G15/50K6
 - . . . [N: Detecting the temperature] [N1201]
- G03G15/50K8
 - . . . [N: Detecting the speed, e.g. for continuous control of recording starting time] [N1201]
- G03G15/50L
 - . . [N: by measuring the characteristics of an intermediate image carrying member or the characteristics of an image on an intermediate image carrying member, e.g. intermediate transfer belt or drum, conveyor belt] [N1201]

[N: **WARNING** [N1201]
Groups [G03G15/50L](#)-[G03G15/50L2](#) are not complete, see also [G03G15/50](#)]
- G03G15/50L2
 - . . . [N: using a test patch] [N1201]
- G03G15/50M
 - . . [N: by measuring the characteristics of an image on the copy material] [N1201]
- G03G15/50N
 - . . [N: by using information from an external support, e.g. magnetic card] [N1201]
- G03G15/50N2
 - . . . [N: being interleaved with the original or directly written on the original, e.g. using a control sheet] [N1201]
- G03G15/50P
 - . . [N: Remote control machines, e.g. by a host] [N1201]
- G03G15/50P2
 - . . . [N: for maintenance] [N1201]

[N: **WARNING** [N1201]
Groups [G03G14/50P2](#)-[G03G15/50P8](#) are not complete, pending reorganisation. See also [G03G15/50P](#)]
- G03G15/50P4
 - . . . [N: for scheduling] [N1201]
- G03G15/50P6
 - . . . [N: for receiving image data] [N1201]
- G03G15/50P8
 - . . . [N: for user-identification or authorisation] [N1201]
- G03G15/50R
 - . . [N: Matching the image with the size of the copy material, e.g. by calculating the magnification or selecting the adequate copy material size] [N1201]
- G03G15/55
 - . [N: Self-diagnostics; Malfunction or lifetime display] [N1201]
- G03G15/55B
 - . . [N: Monitoring or warning means for exhaustion or lifetime end of consumables, e.g. indication of insufficient copy sheet quantity for a job] [N1201]
- G03G15/55B2
 - . . . [N: for toner consumption, e.g. pixel counting, toner coverage detection, toner density measurement ([detectors](#) [G03G15/08H2](#))] [N1201]

[N: **WARNING** [N1201]
Group [G03G15/55B2](#) is not complete. See also [G03G15/55](#)-[G03G15/55B](#)]
- G03G15/60
 - . [N: Apparatus which relate to the handling of originals (for photographic purposes in general G03B)] [N1201]
- G03G15/60B
 - . . [N: for transporting] [N1201]

- G03G15/60D . . [N: Holders for originals or exposure platens (for photographic purposes in general G03B)] [N1201]
- G03G15/60F . . [N: for detecting size, presence or position of original] [N1201]
- G03G15/65 . [N: Apparatus which relate to the handling of copy material (handling sheets or webs in general B65H; for photographic purposes in general G03B)] [N1201]
- G03G15/65B . . [N: Supplying of sheet copy material; Cassettes therefor] [N1201]
- G03G15/65B2 . . . [N: for copy sheets in ream] [N1201]
- G03G15/65B4 . . . [N: Automatic supply devices interacting with the rest of the apparatus, e.g. selection of a specific cassette (**matching the image with the size of the copy material** [G03G15/50R](#))] [N1201]
- G03G15/65B6 . . . [N: Feeding devices for picking up or separation of copy sheets] [N1201]
- G03G15/65B8 . . . [N: Manual supply devices] [N1201]
- G03G15/65D . . [N: Apparatus for continuous web copy material of plain paper, e.g. supply rolls; Roll holders therefor] [N1201]
- G03G15/65D2 . . . [N: Feeding a copy material originating from a continuous web roll] [N1201]
- G03G15/65D4 . . . [N: Cutting] [N1201]
- G03G15/65D6 . . . [N: Computer form folded [CFF] continuous web, e.g. having sprocket holes or perforations] [N1201]
- G03G15/65F . . [N: Transporting ([G03G15/65M](#) takes precedence)] [N1201]
- G03G15/65H . . [N: Removing a copy sheet from a xerographic drum, band or plate (removing sheets from printing cylinders B65H29/6)] [N1201]
- G03G15/65H2 . . . [N: using electrostatic means, e.g. a separating corona] [N1201]
- G03G15/65K . . [N: Devices for collating sheet copy material, e.g. sorters, control, copies in staples form] [N1201]
- G03G15/65K2 . . . [N: Binding sets of sheets, e.g. by stapling, glueing] [N1201]
- G03G15/65K2B [N: Details about the binding means or procedure] [N1201]
- G03G15/65K4 . . . [N: Shifting sets of sheets in the discharge tray] [N1201]
- G03G15/65K6 . . . [N: Placing job divider sheet between set of sheets] [N1201]
- G03G15/65L . . [N: Means for discharging uncollated sheet copy material, e.g. discharging rollers, exit trays] [N1201]
- G03G15/65M . . [N: Handling of sheet copy material taking place in a specific part of the copy material feeding path] [N1201]
- G03G15/65M2 . . . [N: Feeding path after the copy sheet preparation and up to the transfer point, e.g. registering; Deskewing; Correct timing of sheet feeding to the transfer point] [N1201]
- G03G15/65M2B [N: for sheet registration] [N1201]
- [N: **WARNING** [N1201]
Groups [G03G15/65M2B](#)-[G03G15/64M2D](#) are not complete, pending reorganisation. See also [G03G15/65M2](#)]
- G03G15/65M2B2 [N: with correct timing of sheet feeding] [N1201]
- G03G15/65M2D [N: for deskewing or aligning] [N1201]
- G03G15/65M4 . . . [N: Feeding path after the transfer point and up to the fixing point, e.g. guides and feeding means for handling copy material carrying an unfused toner image] [N1201]

- G03G15/65M6 . . . [N: Feeding path after the fixing point and up to the discharge tray or the finisher, e.g. special treatment of copy material to compensate for effects from the fixing] [N1201]
- G03G15/65M6B [N: Decurling of sheet material] [N1201]
- G03G15/65M8 . . . [N: Refeeding path for composite copying] [N1201]
- G03G15/65N . . [N: Special processing for irreversibly adding or changing the sheet copy material characteristics or its appearance, e.g. stamping, annotation printing, punching] [N1201]
- G03G15/65N2 . . . [N: by using non-standard toners, e.g. transparent toner, gloss adding devices] [N1201]
- [N: **WARNING** [N1201]
Group [G03G15/65N2](#) is not complete, pending reorganisation. See also [G03G15/65N](#)]
]
- G03G15/65P . . [N: characterised by the copy material, e.g. postcards, large copies, multi-layered materials, coloured sheet material] [N1201]
- G03G15/65P2 . . . [N: characterised by the recording material, e.g. plastic material, OHP, ceramics, tiles, textiles (details transferring the toner pattern onto particular materials [G03G15/16B](#))] [N1201]
- [N: **WARNING** [N1201]
Groups [G03G15/65P2](#) to [G03G15/65P4](#) are not complete, pending reorganisation. See also [G03G15/65P](#)]
]
- G03G15/65P4 . . . [N: characterised by the format or the thickness, e.g. endless forms] [N1201]
- G03G15/65R . . [N: the imaging being conformed directly on the copy material, e.g. using photosensitive copy material, dielectric copy material for electrostatic printing] [N1201]
- G03G15/70 . [N: Detecting malfunctions relating to paper handling, e.g. jams] [N1201]
- G03G15/70B . . [N: Detecting multiple sheets] [N1201]
- G03G15/70D . . [N: Detecting missed stripping from xerographic drum, band or plate] [N1201]
- G03G15/75 . [N : Details relating to xerographic drum, band or plate, e.g. replacing, testing (electrographic recording members per se [G03G5/00](#))] [N1201]
- G03G15/75B . . [N: relating to drum ([G03G15/75F](#) takes precedence)] [N1201]
- G03G15/75B2 . . . [N: with renewable photoconductive layer] [N1201]
- G03G15/75D . . [N: relating to band, e.g. tensioning ([G03G15/75F](#) takes precedence)] [N1201]
- G03G15/75D2 . . . [N: for maintaining the lateral alignment of the band] [N1201]
- G03G15/75F . . [N: Drive mechanisms for photosensitive medium, e.g. gears] [N1201]
- G03G15/75H . . [N: relating to plate or sheet] [N1201]
- G03G15/80 . [N: Details relating to power supplies, circuits boards, electrical connections] [N1201]
- G03G16/00** **Electrographic processes using deformation of thermoplastic layers** (layers for surface-deformation imaging [G03G5/022](#)); **Apparatus therefor** [N: (shaping of plastic objects with thermoplastic memory effect [B29C61/00](#); digital stores using thermoplastic elements [G11C11/46](#); television signal recording using deformable thermoplastic recording medium [H04N5/82](#))] [C9412]

- G03G17/00** Electrographic processes using patterns other than charge patterns, e.g. an electric conductivity pattern; Processes involving a migration, e.g. photoelectrophoresis, photoelectrosolography; Processes involving a selective transfer, e.g. electrophoto-adhesive processes; Apparatus essentially involving a single such process
- G03G17/00E** . [N: Radiation field photography, e.g. Kirlian photography, colour-discharge photography (recording electrical waveforms in general [G01R13/04](#), e.g. [G01R13/12](#) to [G01R13/14](#))]
- G03G17/02** . with electrolytic development
- G03G17/04** . using photoelectrophoresis
- G03G17/06** . . Apparatus therefor
- G03G17/08** . using an electrophoto-adhesive process, e.g. manifold imaging
- G03G17/10** . using migration imaging, e.g. photoelectrosolography ([G03G17/04](#) takes precedence)
- G03G19/00** **Processes using magnetic patterns; Apparatus therefor, [N: i.e. magnetography]**
- [N: **Note**
This group comprises also processes and apparatus wherein magnetography and electrography are combined; magnetographic printing apparatus for data processing machines [G06K15/14](#); recording members therefor [G03G5/00](#); magnetic recording members for television G11B; recording of sound G11B; recording of electric measurements [G01R13/00](#); recording apparatus for measurements in general G01D]
- G03G19/00T** . [N: where the image is formed by selective demagnetizing, e.g. thermomagnetic recording]
- G03G21/00** **Arrangements not provided for by groups [G03G13/00](#) to [G03G19/00](#), e.g. cleaning, elimination of residual charge [C9507]**
- G03G21/00B** . [N: for removing solid developer or debris from the electrographic recording medium]
- G03G21/00B1** . . [N: using a blade; Details of cleaning blades, e.g. blade shape, layer forming] [C9502]
- G03G21/00B1C** . . . [N: Details relating to the internal structure or chemical composition of the blades] [N1202]
- [N: **WARNING**
[N1202]Groups [G03G21/00B1C](#) to [G03G21/00B1S](#) are not complete pending reorganisation. See also [G03G21/00B1](#)]
- G03G21/00B1E** . . . [N: with electric bias] [N1202]
- G03G21/00B1G** . . . [N: Details relating to the blade support] [N1202]
- G03G21/00B2** . . [N: using a brush; Details of cleaning brushes, e.g. fibre density ([G03G21/00B7](#) takes precedence; magnetic brushes [G03G21/00B4](#))] [C9502]
- G03G21/00B3** . . [N: using a band; Details of cleaning bands, e.g. band winding] [C9502]

- G03G21/00B4 . . [N: using electrostatic or magnetic means; Details thereof, e.g. magnetic pole arrangement of magnetic devices ([G03G21/00B7](#) takes precedence)] [C9502]
 - G03G21/00B5 . . [N: using an air flow; Details thereof, e.g. nozzle structure] [N9502]
 - G03G21/00B6 . . [N: using a roller or a polygonal rotating cleaning member; Details thereof, e.g. surface structure ([G03G21/00B7](#) takes precedence)] [C9502]
 - G03G21/00B7 . . [N: using the developing unit, e.g. cleanerless or multi-cycle apparatus] [N9502]
 - G03G21/00B8 . . [N: Arrangement or disposition of parts of the cleaning unit] [N9502]
 - G03G21/00B8S . . . [N: Plural or sequential cleaning devices] [N1202]
- [N: **WARNING**
[N1202]Groups [G03G21/00B8S](#) to [G03G21/00B8S1](#) are not complete pending reorganisation. See also [G03G21/00B8](#)
]
- G03G21/00B8S1 [N: Separate cleaning member for toner and debris] [N1202]
 - G03G21/00C . [N: removing liquid developer]
 - G03G21/00F . [N: fatigue treatment of the photoconductor]
 - G03G21/02 . Counting the number of copies; Billing
 - G03G21/04 . Preventing copies being made of an original
 - G03G21/04P . . [N: by using an original which is not reproducible or only reproducible with a different appearance, e.g. originals with a photochromic layer or a colour background] [N9409]
 - G03G21/04S . . [N: by discriminating a special original, e.g. a bank note] [N9409]
 - G03G21/06 . Eliminating residual charges from a reusable imaging member
 - G03G21/08 . . using optical radiation
 - G03G21/10 . Collecting or recycling waste developer
 - G03G21/10C . . [N: Arrangements for conveying toner waste] [N1202]
- [N: **WARNING**
[N1202]Group [G03G21/10C](#) is not complete pending reorganisation. See also [G03G21/10-G03G21/12](#)
]
- G03G21/12 . . Toner waste containers
 - G03G21/14 . Electronic sequencing control
 - G03G21/14B . . [N: wherein control pulses are generated by the mechanical movement of parts of the machine, e.g. the photoconductor]
 - G03G21/16 . Mechanical means for facilitating the maintenance of the apparatus, e.g. modular arrangements
 - G03G21/16A . . [N: Arrangement or disposition of the entire apparatus] [N1202]
- [N: **WARNING**
[N1202]Groups [G03G21/16A](#) to [G03G21/16P6](#) are not complete pending reorganisation. See also [G03G21/16](#)
]

- G03G21/16A1 . . . [N: for space saving, e.g. structural arrangements] [N1202]
- G03G21/16A2 . . . [N: Measures for handling of apparatus by disabled persons] [N1202]
- G03G21/16A3 . . . [N: Frame structures] [N1202]
- G03G21/16A4 . . . [N: Means to access the interior of the apparatus] [N1202]
- G03G21/16A4C [N: Clamshell type ([G03G21/16A4F](#) takes precedence)] [N1202]
- G03G21/16A4D [N: using doors or covers ([G03G21/16A4F](#) takes precedence)] [N1202]
- G03G21/16A4F [N: directed to paper handling or jam treatment] [N1202]
- G03G21/16C . . [N: for connecting the different parts of the apparatus] [N1202]
- G03G21/16C1 . . . [N: Mechanical connection means] [N1202]
- G03G21/16C2 . . . [N: Electrical connection means] [N1202]
- G03G21/16C4 . . . [N: Wireless connection means, e.g. RFID] [N1202]
- G03G21/16F . . [N: means for handling parts of the apparatus in the apparatus
([G03G21/16A](#), [G03G21/16C](#) take precedence)] [N1202]
- G03G21/16F1 . . . [N: for the exposure unit] [N1202]
- G03G21/16F2 . . . [N: for the photosensitive element] [N1202]
- G03G21/16F3 . . . [N: for the developer unit] [N1202]
- G03G21/16F4 . . . [N: for the transfer unit] [N1202]
- G03G21/16F5 . . . [N: for the fixing unit] [N1202]
- G03G21/16F6 . . . [N: for the cleaning unit] [N1202]
- G03G21/16F7 . . . [N: for paper transport] [N1202]
- G03G21/18 . . using a processing cartridge, [N: whereby the process cartridge comprises at least
two image processing means in a single unit] [C0806]
- [N: **WARNING** [N0806]
Groups [G03G21/18C](#) to [G03G21/18L2](#) are not complete pending reorganisation.
See also this group
]
- G03G21/18C . . . [N: Arrangements or disposition of the complete process cartridge or parts
thereof] [N0806]
- G03G21/18C1 [N: colour] [N0806]
- G03G21/18C2 [N: Manufacturing or assembling, recycling, reuse, transportation, packaging
or storage] [N0806]
- G03G21/18C3 [N: Details of parts of process cartridge, e.g. for charging, transfer, cleaning,
developing ([G021/18C6](#) takes precedence)]
- G03G21/18C4 [N: having a submodular arrangement] [N0806]
- G03G21/18C4C [N: means for connecting the different parts of the process cartridge, e.g.
attachment, positioning of parts with each other, pressure/distance
regulation ([G03G21/18C4S](#) takes precedence)] [N0806] [C0810]
- G03G21/18C4S [N: Pivotal subunit connection] [N0806]
- G03G21/18C5 [N: Prevention of damage or soiling, e.g. mechanical abrasion ([G03G21/18H](#)
takes precedence)] [N0806]
- G03G21/18C5S [N: Shielding members, shutter, e.g. light, heat shielding, prevention of
toner scattering] [N0806]
- G03G21/18C6 [N: the process cartridge not comprising a photosensitive member] [N0806]
- G03G21/18H . . . [N: Means for handling the process cartridge in the apparatus body] [N0806]
- G03G21/18H1 [N: for guiding and mounting the process cartridge, positioning, alignment,

				locks (G03G21/18H2P and G03G21/18H3P take precedence)] [N0806]
G03G21/18H1H	.	.	.	[N: using a handle for carrying or pulling out of the main machine, legs of casings] [N0806]
G03G21/18H1P	.	.	.	[N: the process cartridge being mounted parallel to the axis of the photosensitive member] [N0806]
G03G21/18H1V	.	.	.	[N: the process cartridge being mounted perpendicular to the axis of the photosensitive member] [N0806]
G03G21/18H2	.	.	.	[N: for transmitting mechanical drive power to the process cartridge, drive mechanisms, gears, couplings, braking mechanisms] [N0806]
G03G21/18H2C	.	.	.	[N: Axial couplings] [N0806]
G03G21/18H2P	.	.	.	[N: associated with a positioning function] [N0806]
G03G21/18H3	.	.	.	[N: for electrically connecting the process cartridge to the apparatus, electrical connectors, power supply] [N0806]
G03G21/18H3P	.	.	.	[N: associated with a positioning function] [N0806]
G03G21/18L	.	.	.	[N: provided with identifying means or means for storing process- or use parameters, e.g. lifetime of the cartridge] [N9809]
G03G21/18L1	.	.	.	[N: Electronically readable memory] [N0806]
G03G21/18L1C	.	.	.	[N: details of the communication with memory, e.g. wireless communication, protocols] [N0810]
G03G21/18L1C1	.	.	.	[N: position of the memory; memory housings; electrodes] [N0810]
G03G21/18L1L	.	.	.	[N: for auto-setting of process parameters, lifetime, usage] [N0806]
G03G21/18L1P	.	.	.	[N: for presence detection, authentication] [N0806] [C0810]
G03G21/18L2	.	.	.	[N: mechanical or optical identification means, e.g. protrusions, bar codes] [N0806] [C0810]
G03G21/20	.			Humidity or temperature control [N: also ozone evacuation; Internal apparatus environment control]
G03G21/20H	.	.		[N: Humidity] [N1202]
				[N: WARNING [N1202]Groups G03G21/20H and G03G21/20V are not complete pending reorganisation. See also G03G21/20]
G03G21/20V	.	.		[N: Conducting air through the machine e.g. for cooling, filtering, removing gases like ozone] [N1202]