

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 953

DATE: JANUARY 1, 2021

PROJECT RP0700

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:	G03B	30/00
Titles Changed:	G02B	13/002, 13/0085, 13/009
Warnings New:	G03B	30/00
Notes New:	G03B	30/00
Notes Modified:	G03B	SUBCLASS
DEFINITIONS:		
Definitions New:	G03B	30/00
Definitions Modified:	G03B	SUBCLASS

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

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

1. CLASSIFICATION SCHEME CHANGES

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

2. DEFINITIONS

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

3. REVISION CONCORDANCE LIST (RCL)

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

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

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS G02B – OPTICAL ELEMENTS, SYSTEMS, OR APPARATUS (G02F takes precedence; measuring instruments, see the relevant subclass of G01, e.g. optical rangefinders G01C; testing of optical elements, systems, or apparatus G01M 11/00; spectacles G02C; sound lenses G10K 11/30; electron and ion "optics" H01J; X-ray "optics" H01J, H05G 1/00; optical elements structurally combined with electric discharge tubes H01J 5/16, H01J 29/89, H01J 37/22; microwave "optics" H01Q; combination of optical elements with television receivers H04N 5/72; heating arrangements specially adapted for transparent or reflecting areas H05B 3/84)

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title “CPC only” text should normally be enclosed in {curly brackets}**	Transferred to#
C	G02B 7/00	0	Mountings, adjusting means, or light-tight connections, for optical elements	G02B 7/00, G03B 30/00
C	G02B 7/02	1	for lenses {(supports for magnifying lenses G02B25/002)}	G02B 7/02, G03B 30/00
C	G02B 7/021	2	{for more than one lens}	G02B 7/021, G03B 30/00
C	G02B 7/022	2	{lens and mount having complementary engagement means, e.g. screw/thread}	G02B 7/022, G03B 30/00
C	G02B 7/023	2	{permitting adjustment}	G02B 7/023, G03B 30/00
C	G02B 7/027	2	{the lens being in the form of a sphere or ball}	G02B 7/027, G03B 30/00
C	G02B 7/028	2	{with means for compensating for changes in temperature or for controlling the temperature; thermal stabilisation}	G02B 7/028, G03B 30/00
C	G02B 7/04	2	with mechanism for focusing or varying magnification	G02B 7/04, G03B 30/00
C	G02B 7/06	3	Focusing binocular pairs	G02B 7/06, G03B 30/00
C	G02B 7/09	3	adapted for automatic focusing or varying magnification (automatic generation of focusing signals G02B7/28)	G02B 7/09, G03B 30/00
C	G02B 7/10	3	by relative axial movement of several lenses, e.g. of varifocal objective lens	G02B 7/10, G03B 30/00
C	G02B 7/102	4	{controlled by a microcomputer (cameras with interchangeable lenses G03B17/14)}	G02B 7/102, G03B 30/00
C	G02B 7/105	4	with movable lens means specially adapted for focusing at close distances	G02B 7/105, G03B 30/00
C	G02B 13/001	1	{Miniaturised objectives for electronic devices, e.g. portable telephones, webcams, PDAs, small digital cameras (G02B23/243 takes precedence)}	G02B 13/001, G03B 30/00
C	G02B 13/0015	2	{characterised by the lens design}	G02B 13/0015, G03B 30/00
C	G02B 13/002	3	{having at least one aspherical surface}	G02B 13/002, G03B 30/00
C	G02B 13/0025	4	{having one lens only}	G02B 13/0025, G03B 30/00
C	G02B 13/003	4	{having two lenses}	G02B 13/003, G03B 30/00
C	G02B 13/0035	4	{having three lenses}	G02B 13/0035, G03B 30/00

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of</u> <u>dots (e.g.</u> <u>0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be</u> <u>enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
C	G02B 13/004	4	{having four lenses}	G02B 13/004, G03B 30/00
C	G02B 13/0045	4	{having five or more lenses}	G02B 13/0045, G03B 30/00
C	G02B 13/005	3	{having spherical lenses only}	G02B 13/005, G03B 30/00
C	G02B 13/0055	2	{employing a special optical element}	G02B 13/0055, G03B 30/00
C	G02B 13/006	3	{at least one element being a compound optical element, e.g. cemented elements}	G02B 13/006, G03B 30/00
C	G02B 13/0065	3	{having a beam-folding prism or mirror}	G02B 13/0065, G03B 30/00
C	G02B 13/007	4	{the beam folding prism having at least one curved surface}	G02B 13/007, G03B 30/00
C	G02B 13/0075	3	{having an element with variable optical properties}	G02B 13/0075, G03B 30/00
C	G02B 13/008	2	{designed for infrared light}	G02B 13/008, G03B 30/00
C	G02B 13/0085	2	{employing wafer level optics}	G02B 13/0085, G03B 30/00
C	G02B 13/009	2	{having zoom function}	G02B 13/009, G03B 30/00

SUBCLASS G03B – APPARATUS OR ARRANGEMENTS FOR TAKING PHOTOGRAPHS OR FOR PROJECTING OR VIEWING THEM; APPARATUS OR ARRANGEMENTS EMPLOYING ANALOGOUS TECHNIQUES USING WAVES OTHER THAN OPTICAL WAVES; ACCESSORIES THEREFOR (optical parts of such apparatus G02B; photosensitive materials or processes for photographic purposes G03C; apparatus for processing exposed photographic materials G03D)

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of</u> <u>dots (e.g.</u> <u>0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in</u> <u>{curly brackets}**</u>	<u>Transferred to#</u>
U	G03B	Subclass	APPARATUS OR ARRANGEMENTS FOR TAKING PHOTOGRAPHS OR FOR PROJECTING OR VIEWING THEM; APPARATUS OR ARRANGEMENTS EMPLOYING ANALOGOUS TECHNIQUES USING WAVES OTHER THAN OPTICAL WAVES; ACCESSORIES THEREFOR (optical parts of such apparatus G02B; photosensitive materials or processes for photographic purposes G03C; apparatus for processing exposed photographic materials G03D)	
C	G03B 5/00	0	Adjustment of optical system relative to image or object surface other than for focusing	G03B 5/00, G03B 30/00
C	G03B 15/006	1	{Apparatus mounted on flying objects}	G03B 15/006, G03B 30/00
C	G03B 17/02	1	Bodies	G03B 17/02, G03B 30/00
C	G03B 17/04	2	collapsible, foldable or extensible, e.g. book type	G03B 17/04, G03B 30/00
C	G03B 17/08	2	Waterproof bodies or housings	G03B 17/08, G03B 30/00

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Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title “CPC only” text should normally be enclosed in {curly brackets}**	Transferred to#
C	G03B 17/55	1	with provision for heating or cooling, e.g. in aircraft	G03B 17/55, G03B 30/00
N	G03B 30/00	0	Camera modules comprising integrated lens units and imaging units, specially adapted for being embedded in other devices, e.g. mobile phones or vehicles	

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

NOTES:

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

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B. New, Modified or Deleted Warning(s)

SUBCLASS G03B – APPARATUS OR ARRANGEMENTS FOR TAKING PHOTOGRAPHS OR FOR PROJECTING OR VIEWING THEM; APPARATUS OR ARRANGEMENTS EMPLOYING ANALOGOUS TECHNIQUES USING WAVES OTHER THAN OPTICAL WAVES; ACCESSORIES THEREFOR (optical parts of such apparatus G02B; photosensitive materials or processes for photographic purposes G03C; apparatus for processing exposed photographic materials G03D)

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	G03B 30/00		Group G03B 30/00 is incomplete pending reclassification of documents from groups G02B 7/00, G02B 7/02, G02B 7/021, G02B 7/022, G02B 7/023, G02B 7/027, G02B 7/028, G02B 7/04, G02B 7/06, G02B 7/09, G02B 7/10, G02B 7/102, G02B 7/105, G02B 13/001, G02B 13/0015, G02B 13/002, G02B 13/0025, G02B 13/003, G02B 13/0035, G02B 13/004, G02B 13/0045, G02B 13/005, G02B 13/0055, G02B 13/006, G02B 13/0065, G02B 13/007, G02B 13/0075, G02B 13/008, G02B 13/0085, G02B 13/009, G03B 5/00, G03B 17/02, G03B 17/04, G03B 17/08, and G03B 17/55. 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 G03B – APPARATUS OR ARRANGEMENTS FOR TAKING PHOTOGRAPHS OR FOR PROJECTING OR VIEWING THEM; APPARATUS OR ARRANGEMENTS EMPLOYING ANALOGOUS TECHNIQUES USING WAVES OTHER THAN OPTICAL WAVES; ACCESSORIES THEREFOR (optical parts of such apparatus G02B; photosensitive materials or processes for photographic purposes G03C; apparatus for processing exposed photographic materials G03D)

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	G03B	This subclass covers, as far as processes are concerned, only processes characterised by the use or manipulation of apparatus classifiable <u>per se</u> in this subclass.	<p>1. This subclass <u>covers</u>, as far as processes are concerned, only processes characterised by the use or manipulation of apparatus classifiable <u>per se</u> in this subclass.</p> <p>2. In this subclass, the following term is used with the meaning indicated: "camera" means apparatus or arrangements for taking photographs.</p>
N	G03B 30/00		<p>1. When classification is made in this main group, further classification should be made in other groups of subclass G03B or in group G02B 7/00 according to the functional aspects of the camera.</p> <p>The classification symbol of this group is not listed first when assigned to patent documents.</p>

*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 (new)

G03B30/00

Relationships with other classification places

G03B 29/00 covers constructional details of the combination of cameras with other non-optical apparatus. On the other hand, G03B 30/00 covers the camera modules themselves, which are to be embedded in other devices.

References:

Informative references:

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

Optical viewing arrangements for vehicles	B60R 1/00
Mounting of cameras operative during drive; Arrangement of controls thereof relative to the vehicle	B60R 11/04
Mounting of lenses in general	G02B 7/02
Mechanisms for focusing or varying magnification	G02B 7/04
Miniaturized objectives characterized by the optical design	G02B 13/001
Television cameras	H04N 5/225

2. A. DEFINITIONS (modified)

G03B

Replace: The entire Relationships with other classification places section TEXT with the TEXT below (NO new images or images being replaced).

Relationships with other classification places

Photographic processes are covered by subclass G03B when the process relates to the exposure of the photosensitive medium, in order to generate the latent image, whereas subclass G03C covers the photographic processes that involve a chemical transformation of the photosensitive medium, such that the latent image is transformed into a visible and permanent record.

The printing of a record obtained via the processes or apparatus of subclass H04N is classified in class B41 if the only chemical processing involved consists in the after-treatment of ink applied to the recording surface, but is classified in subclass G03B if a latent image is produced.

Electronic image capturing apparatus or processes where an electronic image sensor converts an optical image into electrical signals, e.g. by controlling the electronic image sensor or by processing the electrical signals, are typically – but not always – covered by Subclass H04N.

With respect to projectors or projection-type viewers, this subject matter is typically – but not always – covered by Subclass H04N when it is characterised by the processing or handling of the electronic image signals.

When the following subject matter is classified in this subclass, it is desirable to also classify it in subclass H04N, when some aspects are considered of interest for search purposes:

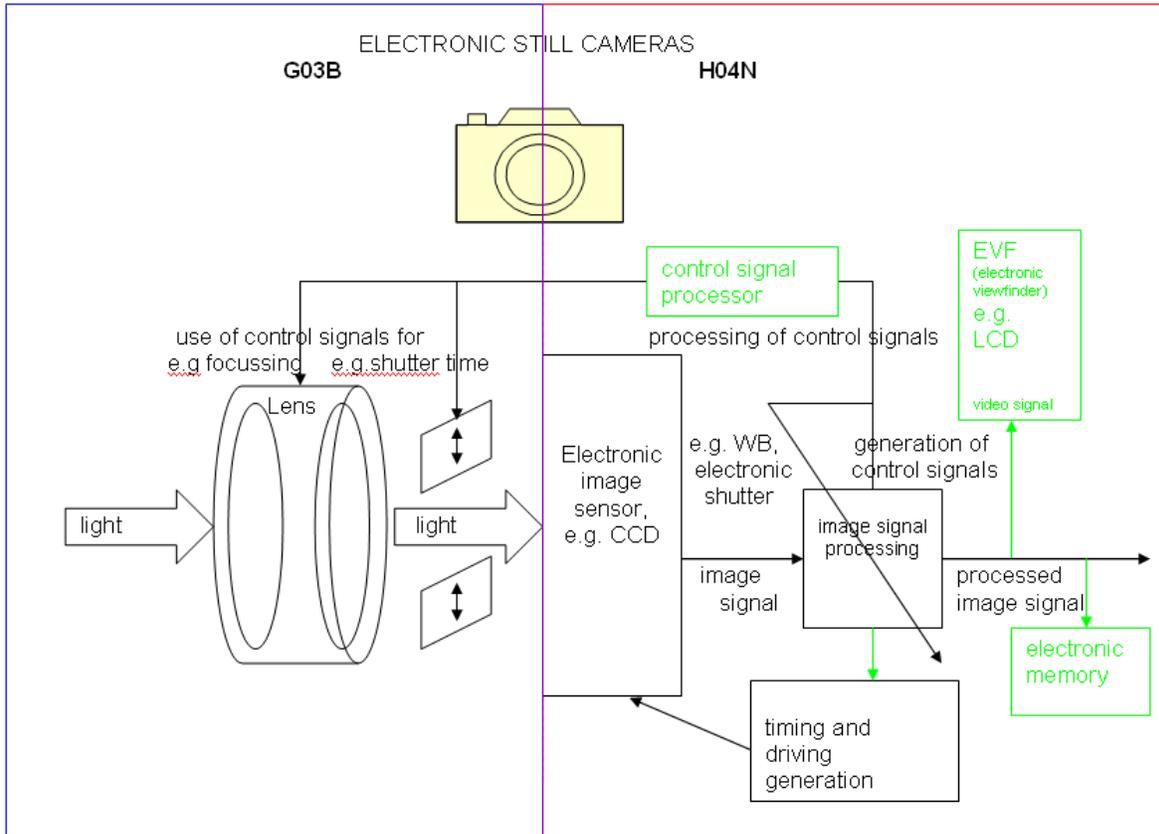
- Digital still cameras, or their details
- Projectors or projection-type viewers using an electronic spatial light modulator, or their details
- Video cameras, CCTV cameras, surveillance cameras and camcorders, or details thereof
- Aspects of apparatus or methods for image capture peculiar to the presence or use of an electronic image sensor [EIS] or image projection peculiar to the

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- presence or use of an electronic spatial light modulator [ESLM] and their related controls insofar they are peculiar to the presence or use of the EIS or ESLM;
- Processing of electrical image signals from the EIS or provided to the ESLM is covered by [H04N 5/00](#), [H04N 9/00](#);
 - Electronic viewfinders [H04N 5/225](#), [H04N 5/232](#), e.g. control of image pickup devices based on information indicated by the electronic viewfinder displaying an image signal generated by the EIS;
 - Electrical and mechanical aspects of camera modules using electronic image sensors and related constructional details as in mobile phones or webcams [H04M 1/00](#), [H04N 5/00](#);
 - Details of projectors peculiar to the use of an ESLM, e.g. dichroic and polarizing arrangements specially adapted for the ESLM [H04N 9/00](#);
 - Remote control of cameras or projectors peculiar to the EIS or the ESLM, e.g. affecting their operation, or based on a generated electrical image signal, [H04N 5/00](#), [H04N 9/00](#);
 - Adaptations peculiar to the use of an EIS or ESLM or the display, the transmission, recording or other use of electrical image data and related circuitry, e.g. mounting of EIS or ESLM, integrated cleaning system for the EIS, dust mapping, cooling of the EIS [H04N](#);
 - Video cameras, TV cameras, e.g. in studios, CCTV cameras, surveillance cameras and camcorders; Constructional and mechanical details related to such cameras, e.g. housings, even when not peculiar to the presence of an electronic image sensor [EIS] [H04N 5/00](#);
 - Systems or apparatus wherein the inventive contribution lies in features covered above, concerning cameras when interacting with those to be covered by [G03B](#), e.g. switch-over between electronic motion-blur correction of electronic viewfinder during focussing and optical motion-blur correction of the lens during exposure, electronic-motion blur correction of the electronic image signal based on output signals of additional sensor, or interaction between mechanical shutter and electronic control of the charge accumulation period of the EIS [H04N](#).

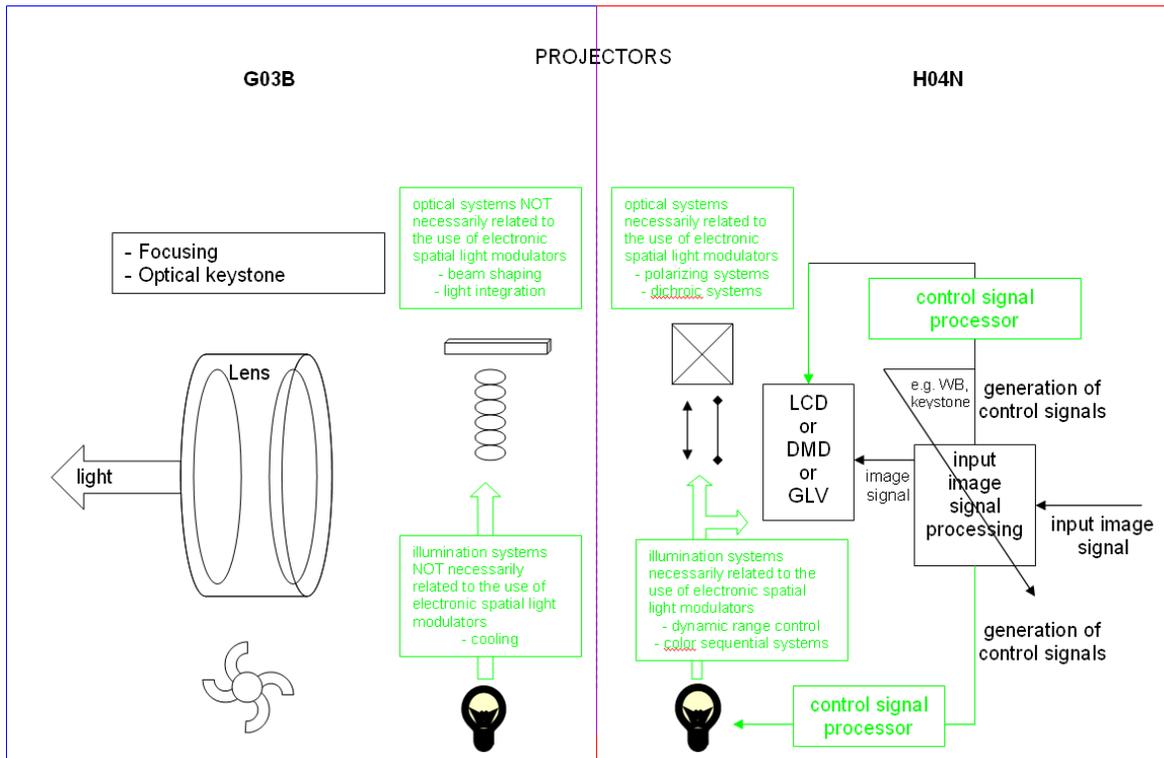
The following diagrams are intended to illustrate the relationship between [H04N](#) and [G03B](#)



Thus, in G03B aspects of apparatus or methods for taking photographs using an electronic image sensor [EIS] for image capture are classified insofar as they correspond to those of said apparatus or methods for taking photographs using light sensitive film, i.e. insofar not peculiar to the presence or use of the EIS, e.g. mounting of optical elements or flashes, and their related controls insofar they are not peculiar to the presence of the EIS, e.g. exposure, focus, (opto-) mechanical motion blur (anti-shake);

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In **G03B**, aspects of apparatus or methods for projecting or viewing images using an electronic spatial light modulator [ESLM] are classified insofar as they correspond to those of said apparatus or methods for projecting or viewing images using film stock, photographic film or slides, i.e. insofar as not peculiar to the presence of the ESLM, e.g. mounting of optical elements not peculiar to the presence of the ESLM, and their related controls not peculiar to the presence of the ESLM, e.g. cooling, beam shaping, optical keystone correction;

As far as processes are concerned, only processes characterised by the use or manipulation of apparatus classified in **G03B**.

References:

Replace: The text associated with the following entries with the text shown in the table rows below.

“Image processing per se”

“Data storage: Information storage based on relative movement between record carrier and transducer; Static stores”

“Constructional and mechanical details related to Video cameras (e.g. in studios), CCTV cameras, surveillance cameras and

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camcorders even when not peculiar to the presence of an electronic image sensor [EIS]"

Informative references:

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

Image data processing, in general	G06T
Information storage based on relative movement between record carrier and transducer; Static stores	G11B, G11C
Television cameras	H04N 5/225

Special rules of classification

Delete: Entire Special rules of classification section and text.

Glossary of terms

Replace: Existing text associated with the entry for “Camera” with the text in the table shown below.

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

Camera	apparatus or arrangements for taking photographs
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3. REVISION CONCORDANCE LIST (RCL)

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
C	G02B 7/00	G02B 7/00, G03B 30/00
C	G02B 7/02	G02B 7/02, G03B 30/00
C	G02B 7/021	G02B 7/021, G03B 30/00
C	G02B 7/022	G02B 7/022, G03B 30/00
C	G02B 7/023	G02B 7/023, G03B 30/00
C	G02B 7/027	G02B 7/027, G03B 30/00
C	G02B 7/028	G02B 7/028, G03B 30/00
C	G02B 7/04	G02B 7/04, G03B 30/00
C	G02B 7/06	G02B 7/06, G03B 30/00
C	G02B 7/09	G02B 7/09, G03B 30/00
C	G02B 7/10	G02B 7/10, G03B 30/00
C	G02B 7/102	G02B 7/102, G03B 30/00
C	G02B 7/105	G02B 7/105, G03B 30/00
C	G02B 13/001	G02B 13/001, G03B 30/00
C	G02B 13/0015	G02B 13/0015, G03B 30/00
C	G02B 13/002	G02B 13/002, G03B 30/00
C	G02B 13/0025	G02B 13/0025, G03B 30/00
C	G02B 13/003	G02B 13/003, G03B 30/00
C	G02B 13/0035	G02B 13/0035, G03B 30/00
C	G02B 13/004	G02B 13/004, G03B 30/00
C	G02B 13/0045	G02B 13/0045, G03B 30/00
C	G02B 13/005	G02B 13/005, G03B 30/00
C	G02B 13/0055	G02B 13/0055, G03B 30/00
C	G02B 13/006	G02B 13/006, G03B 30/00
C	G02B 13/0065	G02B 13/0065, G03B 30/00
C	G02B 13/007	G02B 13/007, G03B 30/00
C	G02B 13/0075	G02B 13/0075, G03B 30/00
C	G02B 13/008	G02B 13/008, G03B 30/00
C	G02B 13/0085	G02B 13/0085, G03B 30/00
C	G02B 13/009	G02B 13/009, G03B 30/00
C	G03B 5/00	G03B 5/00, G03B 30/00
C	G03B 15/006	G03B 15/006, G03B 30/00
C	G03B 17/02	G03B 17/02, G03B 30/00
C	G03B 17/04	G03B 17/04, G03B 30/00
C	G03B 17/08	G03B 17/08, G03B 30/00
C	G03B 17/55	G03B 17/55, G03B 30/00

* 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.

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- 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>
G03B 30/00	G03B 30/00	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.