

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1858

DATE: JANUARY 1, 2026

PROJECT MP0117-F

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Symbols Deleted:	H01L	21/312, 21/3121, 21/3122, 21/3124, 21/3125, 21/3127, 21/3128, 21/314, 21/3141, 21/3142, 21/3143, 21/3144, 21/3145, 21/3146, 21/3147, 21/3148, 2021/3149, 21/316, 21/31604, 21/31608, 21/31612, 21/31616, 21/3162, 21/31625, 21/31629, 21/31633, 21/31637, 21/31641, 21/31645, 21/3165, 21/31654, 21/31658, 21/31662, 21/31666, 21/3167, 21/31675, 21/31679, 21/31683, 21/31687, 21/31691, 21/31695, 21/318, 21/3185
Warnings Deleted:	H01L	21/312, 21/314, 21/316, 21/318
DEFINITIONS:		
Definitions Deleted:	H01L	21/312, 21/314

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 H01L - SEMICONDUCTOR DEVICES NOT COVERED BY CLASS H10**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
D	H01L21/312	6	Organic layers, e.g. photoresist (H01L21/3105, H01L21/32 take precedence; {photoresists <u>per se</u> G03C})	<no transfer>
D	H01L21/3121	7	{Layers comprising organo-silicon compounds}	<no transfer>
D	H01L21/3122	8	{layers comprising polysiloxane compounds}	<no transfer>
D	H01L21/3124	9	{layers comprising hydrogen silsesquioxane}	<no transfer>
D	H01L21/3125	8	{layers comprising silazane compounds}	<no transfer>
D	H01L21/3127	7	{Layers comprising fluoro (hydro)carbon compounds, e.g. polytetrafluoroethylene}	<no transfer>
D	H01L21/3128	7	{by Langmuir-Blodgett techniques}	<no transfer>
D	H01L21/314	6	Inorganic layers (H01L21/3105, H01L21/32 take precedence)	<no transfer>
D	H01L21/3141	7	{Deposition using atomic layer deposition techniques [ALD]}	<no transfer>
D	H01L21/3142	8	{of nano-laminates, e.g. alternating layers of Al ₂ O ₃ -HfO ₂ }	<no transfer>
D	H01L21/3143	7	{composed of alternated layers or of mixtures of nitrides and oxides or of oxinitrides, e.g. formation of oxinitride by oxidation of nitride layers}	<no transfer>
D	H01L21/3144	8	{on silicon}	<no transfer>
D	H01L21/3145	8	{formed by deposition from a gas or vapour}	<no transfer>
D	H01L21/3146	7	{Carbon layers, e.g. diamond-like layers}	<no transfer>
D	H01L21/3147	7	{Epitaxial deposition of insulating materials}	<no transfer>
D	H01L21/3148	7	{Silicon Carbide layers}	<no transfer>
D	H01L2021/3149	8	{Langmuir-Blodgett techniques}	<no transfer>
D	H01L21/316	7	composed of oxides or glassy oxides or oxide based glass	<no transfer>
D	H01L21/31604	8	{Deposition from a gas or vapour (H01L21/31691, H01L21/31695 take precedence)}	<no transfer>

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D	H01L21/31608	9	{Deposition of SiO ₂ (H01L21/31625, H01L21/31629 and H01L21/31633 take precedence)}	<no transfer>
D	H01L21/31612	10	{on a silicon body}	<no transfer>
D	H01L21/31616	9	{Deposition of Al ₂ O ₃ }	<no transfer>
D	H01L21/3162	10	{on a silicon body}	<no transfer>
D	H01L21/31625	9	{Deposition of boron or phosphorus doped silicon oxide, e.g. BSG, PSG, BPSG}	<no transfer>
D	H01L21/31629	9	{Deposition of halogen doped silicon oxide, e.g. fluorine doped silicon oxide}	<no transfer>
D	H01L21/31633	9	{Deposition of carbon doped silicon oxide, e.g. SiOC}	<no transfer>
D	H01L21/31637	9	{Deposition of Tantalum oxides, e.g. Ta ₂ O ₅ }	<no transfer>
D	H01L21/31641	9	{Deposition of Zirconium oxides, e.g. ZrO ₂ }	<no transfer>
D	H01L21/31645	9	{Deposition of Hafnium oxides, e.g. HfO ₂ }	<no transfer>
D	H01L21/3165	8	{formed by oxidation (H01L21/31691, H01L21/31695 take precedence)}	<no transfer>
D	H01L21/31654	9	{of semiconductor materials, e.g. the body itself}	<no transfer>
D	H01L21/31658	10	{by thermal oxidation, e.g. of SiGe}	<no transfer>
D	H01L21/31662	11	{of silicon in uncombined form}	<no transfer>
D	H01L21/31666	11	{of AIII BV compounds}	<no transfer>
D	H01L21/3167	10	{of anodic oxidation}	<no transfer>
D	H01L21/31675	11	{of silicon}	<no transfer>
D	H01L21/31679	11	{of AIII BV compounds}	<no transfer>
D	H01L21/31683	9	{of metallic layers, e.g. Al deposited on the body, e.g. formation of multi-layer insulating structures}	<no transfer>
D	H01L21/31687	10	{by anodic oxidation}	<no transfer>
D	H01L21/31691	8	{with perovskite structure}	<no transfer>
D	H01L21/31695	8	{Deposition of porous oxides or porous glassy oxides or oxide based porous glass}	<no transfer>
D	H01L21/318	7	composed of nitrides	<no transfer>
D	H01L21/3185	8	{of siliconnitrides}	<no transfer>

*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

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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 H01L - SEMICONDUCTOR DEVICES NOT COVERED BY CLASS H10**

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning</u>
D	H01L21/312	Groups H01L 21/312 – H01L 21/3128 are no longer used for the classification of documents as of May 1, 2011. The content of these groups is being reclassified into groups H01L 21/02107 – H01L 21/02326. Groups H01L 21/02107 – H01L 21/02326 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning
D	H01L21/314	Groups H01L 21/314 – H01L 21/3185 are no longer used for the classification of documents as of May 1, 2011. The content of these group is being reclassified into group H01L 21/02107 – H01L 21/02326. Groups H01L 21/02107 – H01L 21/02326 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning
D	H01L21/316	Group H01L 21/316 is no longer used for the classification of documents as of May 1, 2011. The content of this group is being reclassified into groups H01L 21/02107 – H01L 21/02326. Groups H01L 21/02107 – H01L 21/02326 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning
D	H01L21/318	Group H01L 21/318 is no longer used for the classification of documents as of May 1, 2011. The content of this group is being reclassified into groups H01L 21/02107 – H01L 21/02326. Groups H01L 21/02107 – H01L 21/02326 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning

*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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2. B. DEFINITIONS QUICK FIX

Symbol	Location of change (e.g., section title)	Existing reference symbol or text	Action; New symbol; New text
H01L21/312	Definition		Delete the entire Definition
H01L21/314	Definition		Delete the entire Definition

Notes:

Use this Definitions Quick Fix (DQF) table to:

- Delete an entire definition
- Delete an entire section
- Change a reference symbol
- Delete a reference symbol
- Delete text in a References section
- Correct one error in spelling, article use, or verb tense

Otherwise, use the standard template.

Reminder: Never delete F symbol definitions.

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H01L21/312		DELETE
H01L21/3121		DELETE
H01L21/3122		DELETE
H01L21/3124		DELETE
H01L21/3125		DELETE
H01L21/3127		DELETE
H01L21/3128		DELETE
H01L21/314		DELETE
H01L21/3141		DELETE
H01L21/3142		DELETE
H01L21/3143		DELETE
H01L21/3144		DELETE
H01L21/3145		DELETE
H01L21/3146		DELETE
H01L21/3147		DELETE
H01L21/3148		DELETE
H01L2021/3149		DELETE
H01L21/316		DELETE
H01L21/31604		DELETE
H01L21/31608		DELETE
H01L21/31612		DELETE
H01L21/31616		DELETE
H01L21/3162		DELETE
H01L21/31625		DELETE
H01L21/31629		DELETE
H01L21/31633		DELETE
H01L21/31637		DELETE
H01L21/31641		DELETE
H01L21/31645		DELETE
H01L21/3165		DELETE
H01L21/31654		DELETE
H01L21/31658		DELETE
H01L21/31662		DELETE
H01L21/31666		DELETE
H01L21/3167		DELETE
H01L21/31675		DELETE
H01L21/31679		DELETE
H01L21/31683		DELETE
H01L21/31687		DELETE
H01L21/31691		DELETE
H01L21/31695		DELETE
H01L21/318		DELETE
H01L21/3185		DELETE

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*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.