

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 505

DATE: FEBRUARY 1, 2018

PROJECT MP0346

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

<u>Action*</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Titles Changed:	H01S	3/094026
	H01S	3/1121
	H01S	5/0265
	H01S	5/0657
	H01S	5/1053
	H01S	5/12
	H01S	5/125
	H01S	5/18
	H01S	5/183
	H01S	5/187
	H01S	5/2031
	H01S	5/32358
	H01S	5/34
	H01S	2301/20
Notes New:	H01S	5/00
DEFINITIONS:		
Definitions Modified:	H01S	5/12

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

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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 H01S - DEVICES USING STIMULATED EMISSION

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in curly brackets**</u>	<u>Transferred to#</u>
M	H01S 3/094026	4	{for synchronously pumping, e.g. for mode locking}	
M	H01S 3/1121	4	{Harmonically mode locking lasers, e.g. modulation frequency equals multiple integers or a fraction of the resonator roundtrip time}	
M	H01S 5/0265	3	{Intensity modulators (intra-cavity modulators H01S 5/0625)}	
M	H01S 5/0657	3	{Mode locking, i.e. generation of pulses at a frequency corresponding to a roundtrip in the cavity}	
M	H01S 5/1053	2	{Comprising an active region having a varying composition or cross-section in a specific direction}	
M	H01S 5/12	2	the resonator having a periodic structure, e.g. in distributed feed-back [DFB] lasers (H01S 5/18 takes precedence)	
M	H01S 5/125	3	Distributed Bragg reflector [DBR] lasers	
M	H01S 5/18	2	Surface-emitting [SE] lasers	
M	H01S 5/183	3	having a vertical cavity [VCSE-lasers]	
M	H01S 5/187	3	using a distributed Bragg reflector [SE-DBR-lasers] (H01S 5/183 takes precedence)	
M	H01S 5/2031	4	{characterized by special waveguide layers, e.g. asymmetric waveguide layers or defined bandgap discontinuities}	
M	H01S 5/32358	5	{containing very small amounts, usually less than 1%, of an additional III or V compound to decrease the bandgap strongly in a non-linear way by the bowing effect}	
M	H01S 5/34	2	comprising quantum well or superlattice structures, e.g. single quantum well lasers [SQW-lasers], multiple quantum well lasers [MQW-lasers] or graded index separate confinement heterostructure lasers [GRINSCH-lasers] (H01S 5/36 takes precedence)	
M	H01S 2301/20	1	Lasers with a special output beam profile or cross-section, e.g. non-Gaussian	

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*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; E= 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).
- For U groups, the minimum requirement is to include the U group located immediately prior to the N group or N group array, in order to show the N group hierarchy and improve the readability and understanding of the scheme. 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 except “D” which requires only a symbol.
- #“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>” or “<administrative transfer to XX and YY simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be “invention information”, unless otherwise indicated, and to 2000 series groups is assumed to be “additional information”.

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C. New, Modified or Deleted Note(s)

SUBCLASS H01S - DEVICES USING STIMULATED EMISSION

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
N	H01S 5/00		Attention is drawn to Special Rules of classification at C07F, which Special Rules indicate to which version of the periodic table of chemical elements CPC refers. In this group, the Periodic System used is the 8 group system indicated by Roman numerals in the Periodic Table thereunder.

2. A. DEFINITIONS (modified)

H01S 5/12

References

Limiting references

This place does not cover:

Delete: The following row from the **Limiting references** table:

Forward coupled structures , i.e. DFC lasers	H01S 5/1028
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Insert: The following new **Informative references** section and table:

Informative references

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

Forward coupled structures, i.e. DFC lasers	H01S 5/1028
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