

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 58

JANUARY 15, 2015

PROJECT RP0116

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

<u>Action*</u>	<u>Subclass</u>	<u>Group(s)</u>
<b>Symbols deleted:</b>	F21V	3/005
		5/001
		7/20
		2008/00
		2008/001
		2008/002
		2008/003
		2008/005
		2008/006
		2008/007
		2008/008
		2009/086
		15/011
		15/06
		29/008
		29/022
		29/025
		29/027
		29/22
		29/2206
		29/2218
		29/2225
		29/2231
		29/2237
		29/2243
		29/225
		29/2256
		29/2262
		29/2268
		29/2275
		29/2281
		29/2287
		29/2293
		29/24
		29/242
		29/244
		29/246
		29/248
		29/26
		29/262
		29/265
		29/267
		29/405

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<u>Action*</u>	<u>Subclass</u>	<u>Group(s)</u>
		29/407
<b>Indent change:</b>	F21V	29/2212 (change to a 2-dot group)
<b>Symbols deleted pending reclassification (frozen (F)):</b>	F21V	29/002
		29/004
		29/006
		29/02
		29/20
		29/2212
		29/30
		29/40
		29/402
<b>Symbols newly created:</b>	F21V	29/10
		29/15
		29/50
		29/502
		29/503
		29/504
		29/505
		29/506
		29/507
		29/508
		29/51
		29/52
		29/54
		29/56
		29/57
		29/58
		29/59
		29/60
		29/61
		29/63
		29/65
		29/67
		29/673
		29/677
		29/70
		29/71
		29/713
		29/717
		29/73
		29/74
		29/745
		29/75
		29/76

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<u>Action*</u>	<u>Subclass</u>	<u>Group(s)</u>
		29/763
		29/767
		29/77
		29/773
		29/777
		29/78
		29/80
		29/81
		29/83
		29/85
		29/86
		29/87
		29/89
		29/90
		2200/00
		2200/10
		2200/13
		2200/15
		2200/17
		2200/20
		2200/30
		2200/40
<b>Title change:</b>	F21V	3/00
		5/00
		7/00
		9/00
		11/00
		15/00
		23/00
		29/00
		31/04
		33/0096
Definition of deleted group need to be renumbered- Quick Fix	F21V	F21V7/20 → 29/505 replaced by new definition
		F21V15/06 → 29/15 replaced by new definition
		F21V29/008 → 29/90 replaced by new definition
<b>New or Modified Definitions <u>outside</u> a Revision Project:</b>	F21V	7/0066
	F28F	3/00
	G02B	6/00
	G02B	6/0001
<b>Scheme Warning Notices to be added/modified/deleted:</b>	<b>F21V</b>	after subclass title
		29/00

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<u>Action*</u>	<u>Subclass</u>	<u>Group(s)</u>
		29/002
		29/004
		29/006
		29/008
		29/02
		29/10
		29/20
		29/2212
		29/30
		29/40
		29/50
		29/51
		29/54
		29/56
		29/60
		29/70
		29/76
		29/77
		29/78
		29/85
<b>Scheme Notes to be added/modified/deleted:</b>	F21V	subclass title
<b>Guidance Headings to be added/modified/deleted</b>		F21V1/00
<b>Guidance Headings to be added/modified/deleted</b>		F21V15/00

**The following subclasses/groups are also impacted by this Notice of Changes:**  
F28F, G02B

**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 Notice(s)
  - C. New, Modified or Deleted Note(s) or Guidance Heading(s)
2. DEFINITIONS (New or Modified)
  - A. DEFINITIONS (Full definition template)
  - B. DEFINITIONS (Definitions Quick Fix)
3.  REVISION CONCORDANCE LIST (RCL)
4.  CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

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5.  CROSS-REFERENCE LIST (CRL)

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

**SUBCLASS F21V - DETAILS OF LIGHTING DEVICES, OF GENERAL APPLICATION**

<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 be enclosed in {curly brackets}</u>
M	3/00		Globes; Bowls; Cover glasses (with refracting properties F21V 5/00; with reflecting properties F21V 7/00; characterised by cooling arrangements F21V 29/506)
D	3/005		(transferred to F21V29/506)
M	5/00		Refractors for light sources (characterised by cooling arrangements F21V 29/504)
D	5/001		(transferred to F21V29/504)
M	7/00		Reflectors for light sources (characterised by cooling arrangements F21V 29/505)
D	7/20		(transferred to F21V 29/505)
D	2008/00		(transferred to F21V 2200/00)
D	2008/001		(transferred to F21V 2200/10)
D	2008/002		(transferred to F21V 2200/13)
D	2008/003		(transferred to F21V 2200/15)
D	2008/005		(transferred to F21V 2200/17)
D	2008/006		(transferred to F21V 2200/20)
D	2008/007		(transferred to F21V 2200/30)
D	2008/008		(transferred to F21V 2200/40)
M	9/00		Light filters (coloured shades F21V 1/00; characterised by cooling arrangements F21V 29/502); Selection of luminescent materials for light screens
D	2009/086		(transferred to F21S48/20)
M	11/00		Screens not covered by groups F21V 1/00, F21V 3/00, F21V 7/00 or F21V 9/00 (characterised by cooling arrangements F21V 29/502)
M	15/00		Protecting lighting devices from damage (protection from thermal damage F21V 29/00; gas-tight or water-tight arrangements F21V 31/00)
D	15/011		(transferred to F21V29/507)
D	15/06		(transferred to F21V 29/15 )
M	23/00		Arrangement of electric circuit elements in or on lighting devices {(characterised by cooling arrangements F21V 29/508)}
M	29/00	0	Protecting lighting devices from thermal damage; Cooling or heating arrangements specially adapted for lighting devices or systems (lighting fixtures combined with outlets for air-treatment systems F24F 13/078)

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<b>Type*</b>	<b>Symbol</b>	<b>Indent Level Number of dots (e.g. 0, 1, 2)</b>	<b>Title (new or modified)</b> <b><u>“CPC only” text should be enclosed in {curly brackets}</u></b>
F	29/002	1	(transferred to F21V29/00 – F21V29/89)
F	29/004	2	(transferred to F21V29/00 – F21V29/89)
F	29/006	2	(transferred to F21V29/51, F21V29/52)
D	29/008		(transferred to F21V29/90)
F	29/02	1	(transferred to F21V 29/503,F21V 29/60-F21V 29/89 )
D	29/022		(transferred to F21V29/65)
D	29/025		(transferred to F21V29/673)
D	29/027		(transferred to F21V29/677)
N	29/10	1	Arrangement of heat-generating components to reduce thermal damage, e.g. by distancing heat-generating components from other components to be protected
N	29/15	1	Thermal insulation
F	29/20	1	(transferred to F21V29/00 – F21V29/89)
D	29/22		(transferred to F21V29/70)
D	29/2206		(transferred to F21V29/74)
F	29/2212	2	(transferred to F21V29/76 – F21V29/78)
D	29/2218		(transferred to F21V29/745)
D	29/2225		(transferred to F21V29/77)
D	29/2231		(transferred to F21V29/773)
D	29/2237		(transferred to F21V29/777)
D	29/2243		(transferred to F21V29/76)
D	29/225		(transferred to F21V29/763)
D	29/2256		(transferred to F21V29/767)
D	29/2262		(transferred to F21V29/75)
D	29/2268		(transferred to F21V29/78)
D	29/2275		(transferred to F21V29/80)
D	29/2281		(transferred to F21V29/80)
D	29/2287		(transferred to F21V29/81)
D	29/2293		(transferred to F21V29/83)
D	29/24		(transferred to F21V29/85)
D	29/242		(transferred to F21V29/86)
D	29/244		(transferred to F21V29/87)
D	29/246		(transferred to F21V29/89)

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D	29/248		(transferred to F21V29/58)
D	29/26		(transferred to F21V29/71)
D	29/262		(transferred to F21V29/713)
D	29/265		(transferred to F21V29/717)
D	29/267		(transferred to F21V29/73)
F	29/30	1	(transferred to F21V29/56 - F21V29/59)
F	29/40	1	(transferred to F21V29/51 - F21V29/677)
F	29/402	2	(transferred to F21V29/51 – F21V29/677)
D	29/405		(transferred to F21V29/63)
D	29/407		(transferred to F21V29/54)
N	29/50	1	Cooling arrangements (air-treatment systems dissipating or using the heat of lighting fixtures F24F 3/056)
N	29/502	2	characterised by the adaption for cooling of specific components
N	29/503	3	of light sources (cooling arrangements structurally associated with gas-discharge or vapour-discharge lamps H01J 61/52; cooling arrangements structurally associated with electric incandescent lamps H01K 1/58; cooling arrangements structurally associated with light-emitting diodes H01L 33/64)
N	29/504	3	of refractors
N	29/505	3	of reflectors
N	29/506	3	of globes, bowls or cover glasses
N	29/507	3	of means for protecting lighting devices from damage, e.g. housings
N	29/508	3	of electrical circuits
N	29/51	2	using condensation or evaporation of a fluid, e.g. heat pipes
N	29/52	3	electrically powered, e.g. refrigeration systems
N	29/54	2	using thermoelectric means, e.g. Peltier elements
N	29/56	2	using liquid coolants (F21V 29/51 takes precedence)
N	29/57	3	characterised by control arrangements
N	29/58	3	characterised by the coolants
N	29/59	3	{with forced flow of the coolant}
N	29/60	2	characterised by the use of a forced flow of gas, e.g. air
N	29/61	3	characterised by control arrangements



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N	29/63	3	using electrically-powered vibrating means; using ionic wind
N	29/65	3	the gas flowing in a closed circuit
N	29/67	3	characterised by the arrangement of fans
N	29/673	4	{the fans being used for intake }
N	29/677	4	{the fans being used for discharging }
N	29/70	2	characterised by passive heat-dissipating elements, e.g. heat-sinks
N	29/71	3	using a combination of separate elements interconnected by heat-conducting means, e.g. with heat pipes or thermally conductive bars between separate heat-sink elements
N	29/713	4	{in direct thermal and mechanical contact of each other to form a single system }
N	29/717	4	{using split or remote units thermally interconnected, e.g. by thermally conductive bars or heat pipes }
N	29/73	3	the elements being adjustable with respect to each other, e.g. hinged
N	29/74	3	with fins or blades
N	29/745	4	{the fins or blades being planar and inclined with respect to the joining surface from which the fins or blades extend }
N	29/75	4	with fins or blades having different shapes, thicknesses or spacing
N	29/76	4	with essentially identical parallel planar fins or blades, e.g. with comb-like cross-section
N	29/763	5	{the planes containing the fins or blades having the direction of the light emitting axis }
N	29/767	5	{the planes containing the fins or blades having directions perpendicular to the light emitting axis }
N	29/77	4	with essentially identical diverging planar fins or blades, e.g. with fan-like or star-like cross-section
N	29/773	5	{the planes containing the fins or blades having the direction of the light emitting axis }
N	29/777	5	{the planes containing the fins or blades having directions perpendicular to the light emitting axis }
N	29/78	4	with helically or spirally arranged fins or blades
N	29/80	3	with pins or wires
N	29/81	4	with pins or wires having different shapes, lengths or spacing
N	29/83	3	the elements having apertures, ducts or channels, e.g. heat radiation holes
N	29/85	1	characterised by the material (liquid coolants F21 V 29/56)
N	29/86	2	{Ceramics or glass }
N	29/87	2	Organic material, e.g. filled polymer composites; Thermo-conductive additives or coatings therefor

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<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 be enclosed in {curly brackets}</u>
N	29/89	2	Metals
N	29/90	1	Heating arrangements
M	31/04	1	Provision of filling media ( safety devices F21V 25/00 ; cooling arrangements F21V 29/50 )
M	33/0096	2	{Fans, e.g. ceiling fans (forced cooling of lighting devices characterised by the arrangement of fans F21V29/67)}
N	2200/00	0	Use of light guides, e.g. fibre optic devices, in lighting devices or systems
N	2200/10	1	of light guides of the optical fibres type
N	2200/13	2	the light being emitted at the end of the guide
N	2200/15	2	the light being emitted along at least a portion of the outer surface of the guide
N	2200/17	2	characterised by the admission of light into the guide
N	2200/20	1	of light guides of a generally planar shape
N	2200/30	1	of light guides doped with fluorescent agents
N	2200/40	1	of hollow light guides

\*N = new entries (reclassification involved); C = entries with modified file scope (reclassification involved); M = entries with no change to the file scope (no reclassification); D = deleted entries; F = frozen/entries (deleted pending reclassification completion); U = entries that are unchanged

NOTES:

- To simplify understanding, prior to an N group or N group array, include the U group located immediately prior to the N group or N group array in order to clearly illustrate the location of the N group or N group array in the existing scheme.
- “D = deleted entries” and “F = frozen/entries” may be included, in the scheme changes table above if needed for better understanding of the overall scheme.

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B. New, Modified or Deleted Warning notice(s)

**SUBCLASS F21V - DETAILS OF LIGHTING DEVICES, OF GENERAL APPLICATION**

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
M	F21V	F21V8/00 covered by G02B6/00L	<b>WARNING</b> - The following IPC groups are not used in the CPC system. Subject matter covered by these groups is classified in the following CPC groups: F21V 8/00 covered by <b>G02B 6/00</b>
D	29/00	<b>WARNING</b> - Groups F21V 29/20 to F21V 29/40 do not correspond to former or current IPC groups. Concordance CPC : IPC for these groups is as follows: F21V 29/20-F21V 29/40 : F21V 29/00	
N	29/00		<b>WARNING:</b> Groups F21V29/002-F21V29/006, F21V29/02, F21V29/20, F21V29/2212, F21V29/30, F21V29/40, and F21V29/402 are no longer used for the classification of documents as of January 15, 2015. The backfile of these groups is being reclassified into groups F21V29/00-F21V29/89. Until reclassification is complete, groups F21V29/002-F21V29/006, F21V29/02, F21V29/20, F21V29/2212, F21V29/30, F21V29/40 and F21V29/402 should be considered when searching groups of the range F21V29/00-F21V29/89 in order to perform a complete search.
N	29/002		<b>WARNING:</b> Group F21V29/002 is no longer used for the classification of documents as of January 15, 2015. The backfile of this group is being reclassified into groups F21V29/00-F21V29/89. Until reclassification is complete, group F21V29/002 should also be considered in order to perform a complete search.
N	29/004		<b>WARNING:</b> Group F21V29/004 is no longer used for the classification of documents as of January 15, 2015. The backfile of this group is being reclassified into groups F21V29/00-F21V29/89. Until reclassification is complete, group F21V29/004 should also be considered in order to perform a complete search.
			<b>WARNING:</b>

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	29/006		Group F21V29/006 is no longer used for the classification of documents as of January 15, 2015. The backfile of this group is being reclassified into groups F21V29/51 and F21V29/52. Until reclassification is complete, groups F21V29/006, F21V29/51 and F21V29/52 should also be considered in order to perform a complete search.
D	29/008	<b>WARNING</b> not complete, see F21S 48/335, F21V 29/00	
N	29/02		<b>WARNING:</b> Group F21V29/02 is no longer used for the classification of documents as of January 15, 2015. The backfile of this group is being reclassified into groups F21V29/503, and F21V29/60-F21V29/89. Until reclassification is complete, group F21V29/02 should also be considered in order to perform a complete search.
N	29/10		<b>WARNING:</b> Group F21V29/10 is incomplete pending reclassification of documents from groups F21V29/002, F21V29/004 and F21V29/02. Until reclassification is complete, groups F21V29/002, F21V29/004 and F21V29/02 should also be considered in order to perform a complete search.
N	29/20		<b>WARNING:</b> Group F21V29/20 is no longer used for the classification of documents as of January 15, 2015. The backfile of this group is being reclassified into groups F21V29/00-F21V29/89. Until reclassification is complete, group F21V29/20 should also be considered in order to perform a complete search.
N	29/2212		<b>WARNING:</b> Group F21V29/2212 is no longer used for the classification of documents as of January 15, 2015. The backfile of this group is being reclassified into groups F21V29/76-F21V29/78. Until reclassification is complete, group F21V29/2212 should also be considered in order to perform a complete search.
N	29/30		<b>WARNING:</b> Group F21V29/30 is no longer used for the classification of documents as of January 15, 2015. The backfile of this group is being reclassified into groups F21V29/56-F21V29/59. Until reclassification is complete, group F21V29/30 should also be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	29/40		<b>WARNING:</b> Groups F21V29/40 and F21V29/402 are no longer used for the classification of documents as of January 15, 2015. The backfile of these groups is being reclassified into groups F21V29/51-F21V29/677. Until reclassification is complete, groups F21V29/40 and F21V29/402 should also be considered in order to perform a complete search.
N	29/50		<b>WARNING:</b> Groups F21V29/50-F21V29/503 are incomplete pending reclassification of documents from group F21V29/002, F21V29/004, and F21V29/02. Until reclassification is complete, groups F21V29/002, F21V29/004 and F21V29/02 should also be considered in order to perform a complete search.
N	29/51		<b>WARNING:</b> Groups F21V29/51-F21V29/52 are incomplete pending reclassification of documents from groups F21V29/006, F21V29/40, and F21V29/402. Until reclassification is complete, groups F21V29/006, F21V29/40 and F21V29/402 should also be considered in order to perform a complete search.
N	29/54		<b>WARNING:</b> Group F21V29/54 is incomplete pending reclassification of documents from groups F21V29/40 and F21V29/402. Until reclassification is complete, groups F21V29/40 and F21V29/402 should also be considered in order to perform a complete search.
N	29/56		<b>WARNING:</b> Groups F21V29/56-F21V29/59 are incomplete pending reclassification of documents from groups F21V29/30, F21V29/40 and F21V29/402. Until reclassification is complete, groups F21V29/30, F21V29/40 and F21V29/402 should also be considered in order to perform a complete search.
N	29/60		<b>WARNING:</b> Groups F21V29/60-F21V29/677 are incomplete pending reclassification of documents from groups F21V29/02, F21V29/40, and F21V29/402. Until reclassification is complete, groups F21V29/02, F21V29/40 and F21V29/402 should also be considered in order to perform a complete search.
N	29/70		<b>WARNING:</b> Groups F21V29/70-F21V29/83 are incomplete pending reclassification of documents from group F21V29/02. Until reclassification is complete, group F21V29/02 should also be considered in order to perform a complete search.
			<b>WARNING:</b>

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	29/76		Groups F21V29/76-F21V29/767 are incomplete pending reclassification of documents from group F21V29/2212. Until reclassification is complete, group F21V29/2212 should also be considered in order to perform a complete search.
N	29/77		<b>WARNING:</b> Groups F21V29/77-F21V29/777 are incomplete pending reclassification of documents from group F21V29/2212. Until reclassification is complete, group F21V29/2212 should also be considered in order to perform a complete search.
N	29/78		<b>WARNING:</b> Group F21V29/78 is incomplete pending reclassification of documents from group F21V29/2212. Until reclassification is complete, group F21V29/2212 should also be considered in order to perform a complete search.
N	29/85		<b>WARNING:</b> Groups F21V29/85-F21V29/89 are incomplete pending reclassification of documents from group F21V29/02. Until reclassification is complete, groups F21V29/02 should also be considered in order to perform a complete search.

\*N = new warning, M = modified warning, D = deleted warning

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C. New, Modified or Deleted Note(s) or Guidance Heading(s)

**SUBCLASS F21V - DETAILS OF LIGHTING DEVICES, OF GENERAL APPLICATION**

<u>Type*</u>	<u>Location</u>	<u>Old Note or Guidance Heading</u>	<u>New/Modified Note or Guidance Heading</u>
M	subclass	<p><b><u>NOTE:</u></b></p> <p>1. Groups F21V1/00 - F21V14/00 cover details of those parts involved in light emission or distribution. Groups F21V15/00 - F21V31/00 cover details of those parts not so involved.</p> <p>2. Details of non-electric lighting devices or systems are classified in groups F21V35/00 - F21V37/00 only if a special adaptation related to the use of a non-electric light source is of interest.</p> <p>In this subclass have been included only those lighting device details which were considered to be of a kind applicable to the lighting devices of more than one of the subclasses F21L , F21M , F21P , F21Q , F21S . Inventions concerned with details of the kinds provided for are to be classified in this subclass, even though they are only stated to be applied to a device of a single subclass.</p>	<p><b><u>NOTE:</u></b></p> <p>1. Groups F21V 1/00-F21V 14/00 cover aspects related to light emission or distribution. Groups F21V 15/00-F21V 31/00 cover aspects not related to light emission or distribution.</p> <p>2. Details of non-electric lighting devices or systems are classified in groups F21V 35/00-F21V 37/00 only if a special adaptation related to the use of a non-electric light source is of interest.</p> <p>3. In this subclass, it is desirable to add the indexing codes of subclasses F21W and F21Y.</p>
M	F21V1/00 – 14/085	<p><b>Guidance heading:</b> Details of those parts involved in light emission or distribution ( optical elements and systems in general G02B )</p>	<p><b>Guidance heading:</b> {Aspects related to light emission or distribution}</p>
M	F21V15/00 – 2200/40	<p><b>Guidance heading:</b> Details of those parts <b>not</b> involved in light emission or distribution, e.g. fittings</p>	<p><b>Guidance heading:</b> {Aspects not related to light emission or distribution, e.g. fittings}</p>

\*N = new note/guidance heading, M = modified note/guidance heading, D = deleted note/guidance heading

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## 2. DEFINITIONS

A. New or Modified**F21V29/00**

**Protecting lighting devices from thermal damage; Cooling or heating arrangements specially adapted for lighting devices or systems (lighting fixtures combined with outlets for air-treatment systems [F24F13/078](#))**

**References relevant to classification in this group**

*This subclass/group does not cover:*

Lighting fixtures combined with outlets for air-treatment systems	<a href="#">F24F13/078</a>
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*Examples of places where the subject matter of this subclass/group is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

Cooling of lighting devices for vehicle headlamps or rear lamps	<a href="#">F21S48/32</a>
Cooling of air-treatment systems with air-flow over lighting fixtures	<a href="#">F24F3/056</a>
Cooling of projectors or projector type viewers	<a href="#">G03B21/16</a>
Cooling arrangements for gas- or vapour-discharge lamps	<a href="#">H01J61/52</a>
Cooling arrangements for electric incandescent lamps	<a href="#">H01K1/58</a>

**Informative references**

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

Heat pipes	<a href="#">F28D15/02</a>
Heating or cooling of liquid crystal cells	<a href="#">G02F1/133382</a>
Control of the temperature of systems for controlling or regulating non-electric variables	<a href="#">G05D23/00</a>
Cooling means for data processing equipment	<a href="#">G06F1/20</a>
Arrangements for cooling, heating, ventilating or temperature compensation for semiconductor or other solid state devices	<a href="#">H01L23/34</a>
Heat extraction or cooling elements for semiconductor devices characterised by the semiconductor body packages	<a href="#">H01L33/64</a>



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Casings or enclosures with channels or ducts for flow of cooling medium	<a href="#">H02K5/20</a>
Thermal arrangements for printed circuits, e.g. for cooling or heating	<a href="#">H05K1/0201</a>

## F21V29/15

### Thermal insulation

#### Definition statement

*This subclass/group covers:*

Means for screening the heat, e.g. screen for heat radiation

#### Informative references

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

Through holes in printed circuit board to screen conductive heat transfer from one part to the other	<a href="#">H05K1/0203</a>
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## F21V29/505

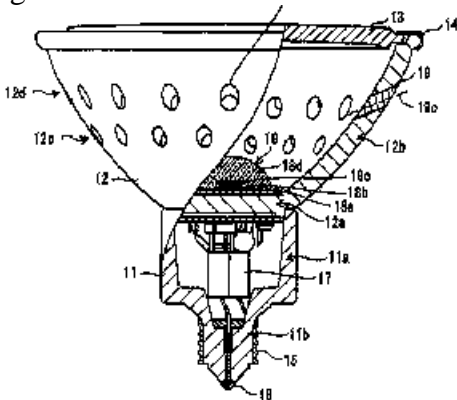
### of reflectors

#### Definition statement

*This subclass/group covers:*

Illustrative examples of subject matter classified in this group.

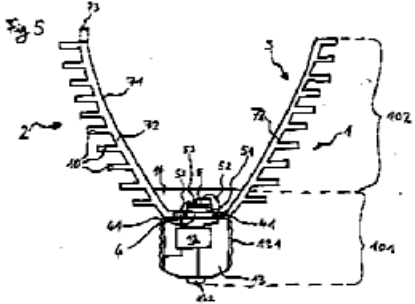
e.g. JP2011228265



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e.g. DE102004042186



## F21V29/90

### Heating arrangements

#### References relevant to classification in this group

*This subclass/group does not cover:*

Heating arrangements structurally associated with electric lamps	H01J61/52, H01K1/58
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B. DEFINITIONS QUICK FIX

<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing</u>	<u>New/(Action)</u>
F21V7/20	Delete the entire Definition		(replaced by new definition of F21V29/505)
F21V15/00	Reference relevant		Protecting lighting devices from thermal damage F21V29/00 (to be added before reference to F21V31/00)
F21V15/00	Informative references	Cooling or heating arrangements F21V29/00 (to be deleted)	
F21V15/06	Delete the entire Definition		(replaced by new definition of F21V29/15)
F21V29/00	Delete the entire Definition		(replaced by new definition of F21V29/00)
F21V29/008	Delete the entire Definition		(replaced by new definition of F21V29/90)

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3. REVISION CONCORDANCE LIST (RCL)

<b>Type*</b>	<b>From CPC Symbol (existing)</b>	<b>To CPC Symbol (new)</b>
D	F21V3/005	F21V29/506
D	F21V5/001	F21V29/504
D	F21V7/20	F21V29/505
D	F21V2008/00	F21V2200/00
D	F21V2008/001	F21V2200/10
D	F21V2008/002	F21V2200/13
D	F21V2008/003	F21V2200/15
D	F21V2008/005	F21V2200/17
D	F21V2008/006	F21V2200/20
D	F21V2008/007	F21V2200/30
D	F21V2008/008	F21V2200/40
D	F21V2009/086	F21S48/20
D	F21V15/011	F21V29/507
D	F21V15/06	F21V29/15
D	F21V29/008	F21V29/90
D	F21V29/022	F21V29/65
D	F21V29/025	F21V29/673
D	F21V29/027	F21V29/677
D	F21V29/22	F21V29/70
D	F21V29/2206	F21V29/74
D	F21V29/2218	F21V29/745
D	F21V29/2225	F21V29/77
D	F21V29/2231	F21V29/773
D	F21V29/2237	F21V29/777
D	F21V29/2243	F21V29/76
D	F21V29/225	F21V29/763
D	F21V29/2256	F21V29/767
D	F21V29/2262	F21V29/75
D	F21V29/2268	F21V29/78
D	F21V29/2275	F21V29/80
D	F21V29/2281	F21V29/80
D	F21V29/2287	F21V29/81
D	F21V29/2293	F21V29/83
D	F21V29/24	F21V29/85
D	F21V29/242	F21V29/86
D	F21V29/244	F21V29/87
D	F21V29/246	F21V29/89
D	F21V29/248	F21V29/58
D	F21V29/26	F21V29/71
D	F21V29/262	F21V29/713
D	F21V29/265	F21V29/717
D	F21V29/267	F21V29/73
D	F21V29/405	F21V29/63
D	F21V29/407	F21V29/54

\* C = entries with modified file scope (reclassification involved); D = deleted entries,

NOTE: Frozen (F) symbols are not included in the RCL table above.

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F21V3/005		delete CPC/IPC
F21V5/001		delete CPC/IPC
F21V7/20		delete CPC/IPC
F21V2008/00		delete CPC/IPC
F21V2008/001		delete CPC/IPC
F21V2008/002		delete CPC/IPC
F21V2008/003		delete CPC/IPC
F21V2008/005		delete CPC/IPC
F21V2008/006		delete CPC/IPC
F21V2008/007		delete CPC/IPC
F21V2008/008		delete CPC/IPC
F21V2009/086		delete CPC/IPC
F21V15/011		delete CPC/IPC
F21V15/06		delete CPC/IPC
F21V29/008		delete CPC/IPC
F21V29/022		delete CPC/IPC
F21V29/025		delete CPC/IPC
F21V29/027		delete CPC/IPC
F21V29/22		delete CPC/IPC
F21V29/2206		delete CPC/IPC
F21V29/2218		delete CPC/IPC
F21V29/2225		delete CPC/IPC
F21V29/2231		delete CPC/IPC
F21V29/2237		delete CPC/IPC
F21V29/2243		delete CPC/IPC
F21V29/225		delete CPC/IPC
F21V29/2256		delete CPC/IPC
F21V29/2262		delete CPC/IPC
F21V29/2268		delete CPC/IPC
F21V29/2275		delete CPC/IPC
F21V29/2281		delete CPC/IPC
F21V29/2287		delete CPC/IPC
F21V29/2293		delete CPC/IPC
F21V29/24		delete CPC/IPC
F21V29/242		delete CPC/IPC
F21V29/244		delete CPC/IPC
F21V29/246		delete CPC/IPC
F21V29/248		delete CPC/IPC
F21V29/26		delete CPC/IPC
F21V29/262		delete CPC/IPC

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F21V29/265		delete CPC/IPC
F21V29/267		delete CPC/IPC
F21V29/402		delete CPC/IPC
F21V29/405		delete CPC/IPC
F21V29/407		delete CPC/IPC
F21V29/10	F21V29/10	new CPC/IPC
F21V29/15	F21V29/15	new CPC/IPC
F21V29/50	F21V 29/50	new CPC/IPC
F21V 29/502	F21V 29/502	new CPC/IPC
F21V 29/503	F21V 29/503	new CPC/IPC
F21V 29/504	F21V 29/504	new CPC/IPC
F21V 29/505	F21V 29/505	new CPC/IPC
F21V 29/506	F21V 29/506	new CPC/IPC
F21V 29/507	F21V 29/507	new CPC/IPC
F21V 29/508	F21V 29/508	new CPC/IPC
F21V 29/51	F21V 29/51	new CPC/IPC
F21V 29/52	F21V 29/52	new CPC/IPC
F21V 29/54	F21V 29/54	new CPC/IPC
F21V 29/56	F21V 29/56	new CPC/IPC
F21V 29/57	F21V 29/57	new CPC/IPC
F21V 29/58	F21V 29/58	new CPC/IPC
F21V 29/59	F21V 29/58	new CPC/IPC
F21V 29/60	F21V 29/60	new CPC/IPC
F21V 29/61	F21V 29/61	new CPC/IPC
F21V 29/63	F21V 29/63	new CPC/IPC
F21V 29/65	F21V 29/65	new CPC/IPC
F21V 29/67	F21V 29/67	new CPC/IPC
F21V 29/673	F21V 29/67	new CPC/IPC
F21V 29/677	F21V 29/67	new CPC/IPC
F21V 29/70	F21V 29/70	new CPC/IPC
F21V 29/71	F21V 29/71	new CPC/IPC
F21V 29/713	F21V 29/71	new CPC/IPC
F21V 29/717	F21V 29/71	new CPC/IPC
F21V 29/73	F21V 29/73	new CPC/IPC
F21V 29/74	F21V 29/74	new CPC/IPC
F21V29/745	F21V29/74	new CPC/IPC
F21V 29/75	F21V 29/75	new CPC/IPC
F21V 29/76	F21V 29/76	new CPC/IPC
F21V 29/763	F21V 29/76	new CPC/IPC
F21V 29/767	F21V 29/76	new CPC/IPC
F21V 29/77	F21V 29/77	new CPC/IPC
F21V 29/773	F21V 29/77	new CPC/IPC
F21V 29/777	F21V 29/77	new CPC/IPC
F21V 29/78	F21V 29/78	new CPC/IPC

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<b><u>CPC</u></b>	<b><u>IPC</u></b>	<b><u>Action*</u></b>
F21V 29/80	F21V 29/80	new CPC/IPC
F21V 29/81	F21V 29/81	new CPC/IPC
F21V 29/83	F21V 29/83	new CPC/IPC
F21V 29/85	F21V 29/85	new CPC/IPC
F21V 29/86	F21V 29/85	new CPC/IPC
F21V 29/87	F21V 29/87	new CPC/IPC
F21V 29/89	F21V 29/89	new CPC/IPC
F21V 29/90	F21V 29/90	new CPC/IPC
F21V2200/00	CPCONLY	New CPC/IPC
F21V2200/10	CPCONLY	New CPC/IPC
F21V2200/13	CPCONLY	New CPC/IPC
F21V2200/15	CPCONLY	New CPC/IPC
F21V2200/17	CPCONLY	New CPC/IPC
F21V2200/20	CPCONLY	New CPC/IPC
F21V2200/30	CPCONLY	New CPC/IPC
F21V2200/40	CPCONLY	New CPC/IPC

\*Action column:

- For a new (N) CPC symbol, provide an IPC symbol and complete the Action column with “new CPC/IPC.”
- For an existing CPC symbol where the existing IPC symbol needs to be changed, provide an updated IPC symbol and complete the Action column with “new IPC.”
- For a deleted (D) CPC symbol complete the Action column with “delete CPC/IPC.”
- For a 2000 series CPC symbol with no IPC equivalent, complete the Action column with “CPCONLY”.

NOTE: Frozen (F) symbols are not included in the CICL table above.

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5. CROSS-REFERENCE LIST (CRL)

Definitions references impacted by this revision project

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Change</u>
F21V7/0066	F21V7/20	References relevant	F21V29/505
F28F3/00	F21V7/20	References relevant	F21V29/505
G02B6/00	F21V2008/00	Special rules	F21V2200/00
G02B6/0001	F21V2008/00	Special rules	F21V2200/00

NOTES:

- The CRL tables above are used for changes to locations outside of the project scope. Changes to references in scheme titles or definitions inside the project scope will be reflected in the “scheme change” template or one of the “definition” templates.
- In addition to other changes proposed, D (deleted) and F (frozen) symbols should be indicated as deleted from the scheme and definitions in the tables above.
- When a reference is deleted, text related to that reference will also be deleted.
- If adding a reference, the text associated with the reference must be included in the “Change” column.