

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1239

DATE: JANUARY 1, 2022

PROJECT RP0752

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
<b>SCHEME:</b>		
Symbols Deleted:	G01J	2005/0048, 2005/0051, 2005/0055, 2005/0059, 2005/0062, 2005/0081, 2005/0085, 5/0285, 5/029, 5/043, 2005/067, 2005/068, 5/0809, 5/0812, 5/0825, 5/0828, 5/0834, 5/0862, 5/089, 5/18, 5/26, 5/32, 5/50, 5/505, 5/522, 5/524, 2005/586, 5/62, 2005/623, 2005/626
Symbols New:	G01J	5/03, 5/05, 5/051, 5/064, 5/068, 5/07, 5/0801, 5/0802, 5/08021, 5/0804, 5/0805, 5/0808, 5/0813, 5/0814, 5/0816, 5/0879, 5/35, 5/485, 5/53, 5/532, 5/59, 5/70, 5/80, 5/802, 5/804, 5/806, 5/808, 5/90
Titles Changed:	G01J	5/00, 2005/0092, 5/02, 5/0255, 5/026, 5/04, 5/06, 5/061, 5/08, 5/0803, 5/0806, 5/0815, 5/0818, 5/0821, 5/0831, 5/0837, 5/084, 5/0846, 5/085, 5/0853, 5/0859, 5/0865, 5/0868, 5/0875, 5/12, 5/14, 5/20, 5/22, 5/24, 5/28, 5/30, 5/34, 5/40, 5/44, 5/48, 5/54, 5/56, 5/58, 5/60, 2005/608
Indents Changed:	G01J	5/0806, 5/0815, 5/0818, 5/0821, 5/0831, 5/0837, 5/084, 5/0843, 5/0846, 5/085, 5/0853, 5/0856, 5/0859, 5/0865, 5/0868, 5/0871, 5/0875, 5/0878, 5/52, 2005/526, 2005/528, 5/54, 5/56, 5/58, 2005/583, 5/60, 5/601, 5/602, 2005/604, 5/605, 2005/607, 2005/608
Warnings New:	G01J	5/00, 5/02, 5/026, 5/05, 5/064, , 5/08, 5/0801, 5/0803, 5/0804, 5/0805, 5/0808, 5/0813, 5/0814, 5/0816, 5/0879, 5/34, 5/35, 5/70, 5/90
<b>DEFINITIONS:</b>		
Definitions Deleted:	G01J	5/522, 5/62
Definitions New:	G01J	5/026, 5/03, 5/05, 5/07, 5/0801, 5/0802, 5/0805, 5/0875, 5/48, 5/53, 5/59, 5/80, 5/90
Definitions Modified:	G01J	5/00, 5/0003, 5/02, 5/04, 5/06, 5/20, 5/52, 5/58, 5/60

**The following subclasses/groups are also impacted by this Notice of Changes): C21C5/46**

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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 G01J – MEASUREMENT OF INTENSITY, VELOCITY, SPECTRAL CONTENT, POLARISATION, PHASE OR PULSE CHARACTERISTICS OF INFRA-RED, VISIBLE OR ULTRA-VIOLET LIGHT; COLORIMETRY; RADIATION PYROMETRY (light sources F21, H01J, H01K, H05B; investigating properties of materials by optical means G01N)**

<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>
C	G01J 5/00	0	Radiation pyrometry, e.g. infrared or optical thermometry	G01J 5/00, G01J 5/90
D	G01J 2005/0048	1	{Calibrating; Correcting}	<administrative transfer to G01J 5/80 INV>
D	G01J 2005/0051	2	{Methods for correcting for emissivity}	<administrative transfer to G01J 5/802 INV>
D	G01J 2005/0055	2	{Atmospheric correction}	<administrative transfer to G01J 5/804 INV>
D	G01J 2005/0059	2	{Correcting for reflection of the emitter radiation}	<administrative transfer to G01J 5/806 INV>
D	G01J 2005/0062	2	{Linearising circuits}	<administrative transfer to G01J 5/808 INV>
D	G01J 2005/0081	1	{Thermography}	<administrative transfer to G01J 5/48 INV>
D	G01J 2005/0085	2	{Temperature profile}	<administrative transfer to G01J 5/485 INV>
M	G01J 2005/0092	1	{Temperature by averaging, e.g. by scan (thermography G01J 5/48)}	
C	G01J 5/02	1	Constructional details	G01J 5/02, G01J 5/05
U	G01J 5/025	2	{Interfacing a pyrometer to an external device or network; User interface}	
M	G01J 5/0255	2	{Sample holders for pyrometry; Cleaning of sample (using a gas purge G01J 5/051)}	
C	G01J 5/026	2	{Control of working procedures of a pyrometer, other than calibration; Bandwidth calculation; Gain control}	G01J 5/026, G01J 5/90
U	G01J 5/028	2	{using a charging unit or battery}	

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<b>Type*</b>	<b>Symbol</b>	<b>Indent Level Number of dots (e.g. 0, 1, 2)</b>	<b>Title</b> <b>“CPC only” text should normally be enclosed in {curly brackets}**</b>	<b>Transferred to#</b>
D	G01J 5/0285	2	{Constructional arrangements for compensating for fluctuations caused by humidity, pressure or electromagnetic waves; Controlling the atmosphere inside a pyrometer (G01J5/029 takes precedence)}	<administrative transfer to G01J 5/068>
D	G01J 5/029	2	{using a gas purge}	<administrative transfer to G01J 5/051>
U	G01J 5/0295	2	{Nulling devices or absolute detection}	
N	G01J 5/03	2	Arrangements for indicating or recording specially adapted for radiation pyrometers	
M	G01J 5/04	2	Casings	
D	G01J 5/043	4	{Prevention or determination of dust, smog or clogging (G01J5/029 takes precedence)}	<administrative transfer to G01J 5/05>
U	G01J 5/049	3	{Casings for tympanic thermometers}	
N	G01J 5/05	2	Means for preventing contamination of the components of the optical system; Means for preventing obstruction of the radiation path	
N	G01J 5/051	3	{using a gas purge}	
M	G01J 5/06	2	Arrangements for eliminating effects of disturbing radiation; Arrangements for compensating changes in sensitivity (for adjusting of solid angle of collected radiation G01J 5/07; means for wavelength selection G01J 5/0801)	
M	G01J 5/061	3	by controlling the temperature of the apparatus or parts thereof, e.g. using cooling means or thermostats	
Q	G01J 5/064	3	{Ambient temperature sensor; Housing temperature sensor; Constructional details thereof}	G01J 5/064, G01J 5/70
U	G01J 2005/066	3	{Differential arrangement, i.e. sensitive/not sensitive}	
D	G01J 2005/067	3	{Compensating for environment parameters}	<administrative transfer to G01J 5/068 INV>
N	G01J 5/068	3	by controlling parameters other than temperature	
D	G01J 2005/068	4	{Ambient temperature sensor; Housing temperature sensor}	<administrative transfer to G01J 5/064 INV>

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<b>Type*</b>	<b>Symbol</b>	<b>Indent Level Number of dots (e.g. 0, 1, 2)</b>	<b>Title</b> <b>“CPC only” text should normally be enclosed in {curly brackets}**</b>	<b>Transferred to#</b>
N	G01J 5/07	2	Arrangements for adjusting the solid angle of collected radiation, e.g. adjusting or orienting field of view, tracking position or encoding angular position (optical collimating elements G01J 5/0806)	
C	G01J 5/08	2	Optical arrangements	G01J 5/08, G01J 5/0801, G01J 5/0803
N	G01J 5/0801	3	Means for wavelength selection or discrimination	
N	G01J 5/0802	4	Optical filters	
N	G01J 5/08021	5	{Notch filters}	
C	G01J 5/0803	3	Arrangements for time-dependent attenuation of radiation signals	G01J 5/0801, G01J 5/0803, G01J 5/0879
Q	G01J 5/0804	4	Shutters	G01J 5/0804, G01J 5/0805
N	G01J 5/0805	4	Means for chopping radiation	
M	G01J 5/0806	3	Focusing or collimating elements, e.g. lenses or concave mirrors	
Q	G01J 5/0808	3	Convex mirrors	G01J 5/0808, G01J 5/0813, G01J 5/0814
D	G01J 5/0809	4	{using plane or convex mirrors, parallel phase plates or particular reflectors}	<administrative transfer to G01J 5/0808>
D	G01J 5/0812	4	{using attenuators}	<administrative transfer to G01J 5/0816>
N	G01J 5/0813	3	Planar mirrors; Parallel phase plates	
N	G01J 5/0814	3	{Particular reflectors, e.g. faceted or dichroic mirrors}	
M	G01J 5/0815	3	{Light concentrators, collectors or condensers}	
Q	G01J 5/0816	3	{using attenuators}	G01J 5/0816, G01J 5/0803
M	G01J 5/0818	3	Waveguides	
M	G01J 5/0821	4	Optical fibres	
D	G01J 5/0825	4	{using polarizing elements}	<administrative transfer to G01J 5/59>
D	G01J 5/0828	4	{using notch filters}	<administrative transfer to G01J 5/08021>
M	G01J 5/0831	3	Masks; Aperture plates; Spatial light modulators	

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<b>Type*</b>	<b>Symbol</b>	<b>Indent Level Number of dots (e.g. 0, 1, 2)</b>	<b>Title</b> <b>“CPC only” text should normally be enclosed in {curly brackets}**</b>	<b>Transferred to#</b>
D	G01J 5/0834	4	{using shutters or modulators}	<administrative transfer to G01J 5/0804>
M	G01J 5/0837	3	{Microantennas, e.g. bow-tie}	
M	G01J 5/084	3	{Adjustable or slidable}	
M	G01J 5/0843	4	{Manually adjustable}	
M	G01J 5/0846	3	{having multiple detectors for performing different types of detection, e.g. using radiometry and reflectometry channels}	
M	G01J 5/085	3	{having a through-hole enabling the optical elements to fulfil an additional optical function, e.g. mirrors or gratings having a through-hole for a light collecting or light injecting optical fiber}	
M	G01J 5/0853	3	{having infrared absorbers other than the usual absorber layers deposited on infrared detectors like bolometers, wherein the heat propagation between the absorber and the detecting element occurs within a solid}	
M	G01J 5/0856	3	{Slit arrangements}	
M	G01J 5/0859	3	{Sighting arrangements, e.g. cameras}	
D	G01J 5/0862	4	{using optical filters (G01J5/602, G01J5/0828 take precedence)}	<administrative transfer to G01J 5/0802>
M	G01J 5/0865	3	{having means for replacing an element of the arrangement by another of the same type, e.g. an optical filter}	
M	G01J 5/0868	3	{Means for illuminating a slit or a surface efficiently, e.g. entrance slit of a pyrometer or entrance face of a fiber}	
M	G01J 5/0871	3	{Beam switching arrangements; Photodetection involving different fields of view for a single detector}	
M	G01J 5/0875	3	Windows; Arrangements for fastening thereof	
M	G01J 5/0878	3	{Diffusers}	
N	G01J 5/0879	3	{Optical elements not provided otherwise, e.g. optical manifolds, holograms, cubic beamsplitters, non-dispersive prisms or particular coatings}	
D	G01J5/089	3	{Field-of-view determination; Aiming or pointing of a pyrometer; Adjusting alignment; Encoding angular position; Size of the measuring area; Position tracking}	<administrative transfer to G01J5/07>
M	G01J 5/12	2	using thermoelectric elements, e.g. thermocouples	
M	G01J 5/14	3	Electrical features thereof	

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D	G01J 5/18	4	Special adaptation for indicating or recording (indicating or recording measured values in general G01D)	<administrative transfer to G01J 5/03>
M	G01J 5/20	2	using resistors, thermistors or semiconductors sensitive to radiation, e.g. photoconductive devices	
M	G01J 5/22	3	Electrical features thereof	
M	G01J 5/24	4	Use of specially adapted circuits, e.g. bridge circuits	
D	G01J 5/26	4	Special adaptation for indicating or recording (indicating or recording measured values in general G01D)	<administrative transfer to G01J 5/03>
M	G01J 5/28	2	using photoemissive or photovoltaic cells	
M	G01J 5/30	3	Electrical features thereof	
D	G01J 5/32	4	Special adaptation for indicating or recording (indicating or recording measured values in general G01D)	<administrative transfer to G01J 5/03>
C	G01J 5/34	2	using capacitors, e.g. pyroelectric capacitors	G01J 5/34, G01J 5/35
U	G01J 2005/345	3	{Arrays}	
N	G01J 5/35	3	Electrical features thereof	
M	G01J 5/40	2	using bimaterial elements	
M	G01J 5/44	2	using change of resonant frequency, e.g. of piezo-electric crystals	
T	G01J 5/48	1	Thermography; Techniques using wholly visual means	
N	G01J 5/485	2	{Temperature profile}	
D	G01J 5/50	1	using techniques specified in the subgroups below	<administrative transfer to G01J 5/00>
D	G01J 5/505	2	{using photographic recording}	<administrative transfer to G01J 5/03>
M	G01J 5/52	1	using comparison with reference sources, e.g. disappearing-filament pyrometer	
D	G01J 5/522	3	{Reference sources, e.g. standard lamps; Black bodies}	<administrative transfer to G01J 5/53>
D	G01J 5/524	3	{using a reference heater of the emissive surface type, e.g. for selectively absorbing materials}	<administrative transfer to G01J 5/532>
M	G01J 2005/526	2	{Periodic insertion of emissive surface}	
M	G01J 2005/528	2	{Periodic comparison}	
N	G01J 5/53	2	Reference sources, e.g. standard lamps; Black bodies	
N	G01J 5/532	3	{using a reference heater of the emissive surface type, e.g. for selectively absorbing materials}	
M	G01J 5/54	2	Optical arrangements	
M	G01J 5/56	2	Electrical features thereof	

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<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>
M	G01J 5/58	1	using absorption; using extinction effect	
M	G01J 2005/583	2	{Interferences, i.e. fringe variation with temperature}	
D	G01J 2005/586	3	{Polarisation}	<administrative transfer to G01J 5/59 INV>
N	G01J 5/59	1	using polarisation; Details thereof	
M	G01J 5/60	1	using determination of colour temperature	
M	G01J 5/601	2	{using spectral scanning}	
M	G01J 5/602	2	{using selective, monochromatic or bandpass filtering}	
M	G01J 2005/604	3	{bandpass filtered}	
M	G01J 5/605	2	{using visual determination}	
M	G01J 2005/607	2	{on two separate detectors}	
M	G01J 2005/608	2	{Colour temperature of light sources}	
D	G01J 5/62	2	using means for chopping the light {Compensation for background radiation of chopper element}	<administrative transfer to G01J 5/0805>
D	G01J 2005/623	3	{Compensating radiation of chopper}	<administrative transfer to G01J 5/0805 INV>
D	G01J 2005/626	3	{Electrooptic chopper}	<administrative transfer to G01J 5/0805 INV>
N	G01J 5/70	1	Passive compensation of pyrometer measurements, e.g. using ambient temperature sensing or sensing of temperature within housing	
N	G01J 5/80	1	Calibration (using comparison with reference sources G01J 5/52)	
N	G01J 5/802	2	{by correcting for emissivity}	
N	G01J 5/804	2	{using atmospheric correction}	
N	G01J 5/806	2	{by correcting for reflection of the emitter radiation}	
N	G01J 5/808	2	{using linearising circuits}	
N	G01J 5/90	1	Testing, inspecting or checking operation of radiation pyrometers	

\*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:



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- \*\*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 G01J – MEASUREMENT OF INTENSITY, VELOCITY, SPECTRAL CONTENT, POLARISATION, PHASE OR PULSE CHARACTERISTICS OF INFRA-RED, VISIBLE OR ULTRA-VIOLET LIGHT; COLORIMETRY; RADIATION PYROMETRY (light sources F21, H01J, H01K, H05B; investigating properties of materials by optical means G01N)**

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	G01J 5/00		Group G01J 5/00 is impacted by reclassification into group G01J 5/90. Groups G01J 5/00 and G01J 5/90 should be considered in order to perform a complete search.
N	G01J 5/02		Group G01J 5/02 is impacted by reclassification into group G01J 5/05. Groups G01J 5/02 and G01J 5/05 should be considered in order to perform a complete search.
N	G01J 5/026		Group G01J 5/026 is impacted by reclassification into group G01J 5/90. Groups G01J 5/026 and G01J 5/90 should be considered in order to perform a complete search.
N	G01J 5/05		Group G01J 5/05 is incomplete pending reclassification of documents from group G01J 5/02. Groups G01J 5/02 and G01J 5/05 should be considered in order to perform a complete search.
N	G01J 5/064		Group G01J 5/064 is impacted by reclassification into group G01J 5/70. Groups G01J 5/064 and G01J 5/70 should be considered in order to perform a complete search.
N	G01J 5/08		Group G01J 5/08 is impacted by reclassification into groups G01J 5/0801 and G01J 5/0803. Groups G01J 5/08, G01J 5/0801, and G01J 5/0803 should be considered in order to perform a complete search.
N	G01J 5/0801		Group G01J 5/0801 is incomplete pending reclassification of documents from groups G01J 5/08 and G01J 5/0803. Groups G01J 5/08, G01J 5/0803, and G01J 5/0801 should be considered in order to perform a complete search.
N	G01J 5/0803		Group G01J 5/0803 is incomplete pending reclassification of documents from groups G01J 5/08 and G01J 5/0816. Group G01J 5/0803 is also impacted by reclassification into groups G01J 5/0801 and G01J 5/0879. All groups listed in this Warning should be considered in order to perform a complete search.

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<b>Type*</b>	<b>Location</b>	<b>Old Warning</b>	<b>New/Modified Warning</b>
N	G01J 5/0804		Group G01J 5/0804 is impacted by reclassification into group G01J 5/0805. Groups G01J 5/0804 and G01J 5/0805 should be considered in order to perform a complete search.
N	G01J 5/0805		Group G01J 5/0805 is incomplete pending reclassification of documents from group G01J 5/0804. Groups G01J 5/0804 and G01J 5/0805 should be considered in order to perform a complete search.
N	G01J 5/0808		Group G01J 5/0808 is impacted by reclassification into groups G01J 5/0813 and G01J 5/0814. All groups listed in this Warning should be considered in order to perform a complete search.
N	G01J 5/0813		Group G01J 5/0813 is incomplete pending reclassification of documents from group G01J 5/0808. Groups G01J 5/0808 and G01J 5/0813 should be considered in order to perform a complete search.
N	G01J 5/0814		Group G01J 5/0814 is incomplete pending reclassification of documents from group G01J 5/0808. Groups G01J 5/0808 and G01J 5/0814 should be considered in order to perform a complete search.
N	G01J 5/0816		Group G01J 5/0816 is impacted by reclassification into group G01J 5/0803. Groups G01J 5/0816 and G01J 5/0803 should be considered in order to perform a complete search.
N	G01J 5/0879		Group G01J 5/0879 is incomplete pending reclassification of documents from group G01J 5/0803. Groups G01J 5/0803 and G01J 5/0879 should be considered in order to perform a complete search.
N	G01J 5/34		Group G01J 5/34 is impacted by reclassification into group G01J 5/35. Groups G01J 5/34 and G01J 5/35 should be considered in order to perform a complete search.
N	G01J 5/35		Group G01J 5/35 is incomplete pending reclassification of documents from group G01J 5/34. Groups G01J 5/34 and G01J 5/35 should be considered in order to perform a complete search.
N	G01J 5/70		Group G01J 5/70 is incomplete pending reclassification of documents from group G01J 5/064. Groups G01J 5/064 and G01J 5/70 should be considered in order to perform a complete search.

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<b><u>Type*</u></b>	<b><u>Location</u></b>	<b><u>Old Warning</u></b>	<b><u>New/Modified Warning</u></b>
N	G01J 5/90		Group G01J 5/90 is incomplete pending reclassification of documents from group G01J 5/00. Groups G01J 5/00 and G01J 5/90 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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**2. A. DEFINITIONS (New)**

Insert the following new definitions.

**G01J5/026****References*****Informative references***

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

References sources	<a href="#">G01J 5/53</a>
Calibration	<a href="#">G01J 5/80</a>

**G01J5/03****References*****Informative references***

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

Indicating measured values, in general	<a href="#">G01D 7/00</a>
Recording measured values, in general	<a href="#">G01D 9/00</a>

**G01J5/05****Definition statement**

*This place covers:*

Means for preventing dirt, e.g. from combustion taking place in furnaces, from disturbing the radiation collection. This also includes cleaning optical elements before or during measurements, e.g. using airflow.

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

Screening from ultra-violet, visible or infra-red light, not restricted to measuring instruments	<a href="#">G12B 17/04</a>
Screening from heat, not restricted to measuring instruments	<a href="#">G12B 17/06</a>

**G01J5/07****Definition statement***This place covers:*

The aiming, pointing or tracking of pyrometers.

The encoding of angular position of pyrometers.

The means for aligning pyrometers or determining the field of view.

**References****Limiting references***This place does not cover:*

Optical collimating elements	<a href="#">G01J 5/0806</a>
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**G01J5/0801****Definition statement***This place covers:*

The means for restricting (selection) the range of wavelengths that are used to determine temperature by radiation pyrometry.

The means for isolating ranges of wavelengths for different purposes (discriminating), one of which is temperature measurement by radiation pyrometry. The other purposes could be monitoring (e.g. using a radiation band to monitor sensitivity while another band is used to determine temperature), calibrating, ensuring centering on the hot source (by using a radiation band associated with a specific hot source – or with known noise – to track the hot source – or reduce the field of view to avoid sources of noise).

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

Optical elements, other than lenses, in general	<a href="#">G02B 5/00</a>
---	---------------------------

**G01J5/0802****Definition statement***This place covers:*

The optical filters, i.e. elements to select a range or band of wavelengths, specially adapted for use in radiation pyrometers.

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

Optical filters, in general	<a href="#">G02B 5/20</a>
-----------------------------	---------------------------

**G01J5/0805****Definition statement***This place covers:*

Details about the construction of the chopper itself, e.g. relating to the chopper wheels, IR detector packages with integral shuttered windows, liquid crystal shutters, electro-optical elements for modulating IR beam, circuit arrangements (peak detection, sample and hold circuits) linked to the chopper.

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

Shutters to protect photodetectors	<a href="#">G01J 2001/0276</a> , <a href="#">G01J 1/26</a>
Optical devices or arrangements using movable or deformable optical elements for controlling the intensity, colour, phase, polarisation or direction of light by periodically varying the intensity of light, e.g. using choppers	<a href="#">G02B 26/04</a>

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Mounting of optical parts, e.g. lenses, shutters, filters; optical parts peculiar to the presence of use of an electronic image sensor	<a href="#">H04N 5/2254</a>
Transforming infra-red radiation	<a href="#">H04N 5/33</a>

**G01J5/0875****Definition statement***This place covers:*

Windows insulating the sensor of a radiation pyrometer from the environment.  
Arrangements for fastening windows to radiation pyrometers.

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

Means for supervising combustion, e.g. windows	<a href="#">F23M 11/04</a>
Observation devices used in furnaces, kilns, ovens or retorts	<a href="#">F27D 21/02</a>
Windows for measuring arrangements not specially adapted for a specific variable	<a href="#">G01D 11/26</a>
Means for preventing contamination of the components of the optical system or obstruction of the radiation path	<a href="#">G01J 5/05</a>

**G01J5/48****Definition statement***This place covers:*

The measurement of the spatial distribution of optical radiation emitted by an object or body to infer a local temperature corresponding to different regions of that object or body.

The measurement of temperature using radiation pyrometry by wholly visual means.

**Relationships with other classification places**

The use of thermography to detect flaws is covered in general by group G01N 21/88, whereas the use of thermography specifically and solely to diagnose a medical condition is covered by group A61B 5/01. Group G01J 5/48 is appropriate whenever thermographic techniques or features of general applicability are described.



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**References****Application-oriented references**

*Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

Investigating the presence of flaws, defects or contamination by the use of optical means	<a href="#">G01N 21/88</a>
Contactless testing of electronic circuits using non-ionising electromagnetic radiation, e.g. optical radiation	<a href="#">G01R 31/308</a>

**Synonyms and Keywords**

*In patent documents, the following words/expressions are often used as synonyms:*

- thermography
- thermal imaging
- infrared imaging

**G01J5/53****Definition statement**

*This place covers:*

Calibration and testing of infrared imagers for temperature detection.

Reference black bodies. Reference sources per se and devices to expose detectors to be calibrated to said sources. Thermal scene projectors for testing IR imagers.

Synthesis of infrared spectral signatures.

Theory of blackbody cavities. Absolute radiometry.

Standard IR lamps. Imager with inbuilt reference source.

Array of emitters.

**References****Informative references**

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

Testing of the correct functioning of a motion detector	<a href="#">G08B 29/00</a>
Non-uniformity compensation for infrared detector arrays	<a href="#">H04N 5/2173</a> , <a href="#">H04N 5/33</a>

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## **G01J5/59**

### **Definition statement**

*This place covers:*

The determination of temperature based on the polarisation of the emitted radiation.

The thermal imaging of a body based on the polarisation of the emitted radiation.

## **G01J5/80**

### **Definition statement**

*This place covers:*

The characterisation of a radiation pyrometer in good working order to determine instrumental parameters or settings, to be able to transform the collected radiation signal into an accurate value of temperature. One example is through modelling of the pyrometer's response.

The adjustment of a radiation pyrometer by correcting for known sources of background, like emissivity, atmospheric effects or scattered radiation.

### **Relationships with other classification places**

This place is used to classify the calibrating or the modelling of a radiation pyrometer, in general. When calibration is accomplished by making use of reference sources, e.g. black bodies, the relevant place is group G01J 5/52.

When it is desired to ascertain that a radiation pyrometer is operating correctly, i.e. that its output is a faithful indication of the measured entity's temperature, the relevant classification place is group G01J 5/90.

One possible criterion to distinguish calibration from testing is that calibration presumes a properly operating instrument, but with that instrument being unable to produce a precise and accurate value of temperature without being supplied with auxiliary measurements, e.g. by performing measurements in a situation where the output is known or predictable.

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## References

### Limiting references

*This place does not cover:*

Calibrating using comparison with references sources	<a href="#">G01J 5/52</a>
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### Application-oriented references

*Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

Reference sources, e.g. standard lamps; Black bodies	<a href="#">G01J 5/53</a>
--	---------------------------

## G01J5/90

### Definition statement

*This place covers:*

The testing, inspection or checking, operational or functional, of radiation pyrometers.

### Relationships with other classification places

This place is used for subject matter linked to detecting faults or deficiencies in radiation pyrometers, preventing their correct and accurate use. In contrast, group G01J 5/80 is used to classify subject matter where the radiation pyrometer is in good working order, but requires the determination of instrument parameters, before any precise or accurate measurement may be obtained from the pyrometer.

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## 2. A. DEFINITIONS (modified)

### G01J5/00

#### Definition statement

Replace: All of the text in the existing “Definition Statement” section with the following updated text.

The measurement of temperature through analysis of the optical (infrared, visible or ultraviolet) radiation emitted by the hot body.

The measurement of temperature through analysis of the optical (infrared, visible or ultraviolet) radiation emitted by a test body directly contacting the hot body whose temperature is to be determined.

Insert: The following new “Relationships with other classification places”

Subclasses G01J and G01K cover the measurement of temperature in general, but Subclass G01J is restricted to a particular form of thermometry, namely radiation pyrometry. In contrast, subclass G01K covers all temperature measurements of general applicability, except radiation pyrometry.

Insert: The following new “Application-oriented references” section.

#### Application-oriented references

*Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

Systems for controlling combustion using light-sensitive elements	<a href="#">F23N 5/08</a>
Optical systems, e.g. for plasma diagnostics, used in thermonuclear fusion reactors	<a href="#">G21B 1/23</a>

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**Informative references**

Replace: The existing references in the “Informative references” table with the following updated references.

Means for supervising combustion, e.g. windows	F23M 11/04
Observation devices used in furnaces, kilns, ovens or retorts	F27D 21/02
Image processing procedures for thermal measurement	G01J5/025
Interfacing a pyrometer to an external device or network; User interface	G01J5/025
Testing and calibration	G01J5/52, G01J 5/80
Measuring temperature; Measuring quantity of heat; Thermally-sensitive elements not otherwise provided for	G01K
Temperature measurement using microwaves	G01K11/006
Calorimetry of radiation beams	G01K17/00
Direction finders for radiant sources	G01S
Intrusion detection by radiation	G08B

**Special rules of classification**

Delete: The existing “Special rules of classification” section.

Insert: The following new “Glossary of terms” section.

**Glossary of terms**

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

Radiation	Waves belonging to the sub-millimeter (Terahertz), infrared, visible or ultraviolet parts of the electromagnetic spectrum
-----------	---

**G01J5/02****Definition statement**

Replace: In the “Definition statement” section all of the existing text with the following updated text.

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Details about constructional aspects of non-contact temperature detection devices.

Details about optical aspects of non-contact temperature detection devices: [G01J5/08](#).

Elimination of stray light: [G01J5/06](#).

Getters: [G01J5/045](#).

Ear thermometer probe covers: [G01J5/021](#).

Ear thermometers casings: [G01J5/049](#).

Insert: The following new “Application-oriented references” section.

### **Application-oriented references**

*Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

Details pertaining to radiation pyrometry using polarisation effects	<a href="#">G01J 5/59</a>
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### **Informative references**

Insert: The following new reference in the existing “Informative references” table.

Passive compensation of pyrometer measurements, e.g. using ambient temperature sensing or sensing of temperature within housing	<a href="#">G01J 5/70</a>
---	---------------------------

### **G01J5/04**

### **Limiting references**

Delete: The existing “Limiting references” section.

### **Informative references**

Insert: The following new reference in the existing “Informative references” table.

Window details, e.g. window seals	<a href="#">G01J5/0875</a>
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**G01J5/06**

Insert: The following new “References/Limiting references” section.

**References****Limiting references**

*This place does not cover:*

Arrangements for adjusting the solid angle of collected radiation	G01J 5/07
Means for wavelength selection	G01J 5/0801

**G01J5/20**

Insert: The following new “Glossary of terms” section.

**Glossary of terms**

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

Photoconductive devices	Devices which, under exposure to light, exhibit a change in conductivity, e.g. photo-resistors, photo-diodes or photo-transistors
-------------------------	---

**G01J5/52****Definition statement**

Replace: The existing text in the “Definition statement” with the following updated text.

The measurement of temperature by radiation pyrometry where reference sources are used either simultaneously with the temperature measurement, e.g. disappearing-filament pyrometer, or in previous or subsequent steps, e.g. in calibration steps using standard sources. This encompasses a process of collecting radiation signals using sources the temperature of which is known, adjusting the radiation pyrometer based on these signals, and measuring the temperature of the desired object or body in the final step.

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Insert: The following new “References/Informative references” section.

**References**

**Informative references**

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

Calibration of radiation pyrometers, in general	<a href="#">G01J 5/80</a>
Testing, inspecting or checking correct operation of radiation pyrometers	<a href="#">G01J 5/90</a>

**G01J5/58**

**Definition statement**

Replace: The existing text in the “Definition statement” section with the following updated text.

The nondispersive determination of temperature based on the absorption or the attenuation of the emitted radiation. The determination involves the selection of a single wavelength or wavelength band.

Insert: The following new “References/Informative references” section.

**References**

**Informative references**

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

Measuring temperature using changes in reflectance	<a href="#">G01K11/125</a>
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## G01J5/60

### Definition statement

Replace: The existing text in the “Definition statement” section with the following updated text.

The determination of colour temperature, i.e. detecting at least one wavelength or spectral band emitted by a hot body, comparing the detected intensity or intensities to the values theoretically expected for a black body at well-defined temperatures and determining the temperature that produces the best fit between observed wavelengths or spectral bands and theoretically expected values.

The determination of temperature through measurement of at least two wavelengths or spectral bands, where the temperature is expressed as a mathematical function of pairs of intensity-wavelength values, or of intensity-spectral band values, typically in the form of ratios of intensities. In other words, the comparison need not be performed explicitly with the Planck formula. The comparison step could involve phenomenological equations derived from the Planck formula or providing a sufficiently precise approximation of it.

Insert: The following new “Relationships with other classification places” section.

### Relationships with other classification places

When temperature is inferred from measurements of spectra, the demarcation line between subclasses G01K and G01J is the following: subclass G01J encompasses solely temperature measuring techniques where the radiation spectrum originates from black-body radiation (as modelled by the Planck formula). In contrast, whenever the spectrum results from ambient radiation or radiation from a dedicated source being reflected or transmitted by the body the temperature of which is to be determined, this subject matter is covered in subclass G01K.

Insert: The following new “References/Informative references” section.

### Informative references

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

Measuring temperature using changes in colour, translucency or reflectance
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G01K 11/12
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Measuring temperature using thermoluminescent materials
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<a href="#">G01K 11/20</a>
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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
G01J 5/0003	Informative references	G01J 2005/0048	<u>Replace</u> G01J 2005/0048 with G01J 5/80
G01J 5/522	Definition		<u>Delete</u> the entire definition.
G01J 5/62	Definition		<u>Delete</u> 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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3. REVISION CONCORDANCE LIST (RCL)

<b>Type*</b>	<b>From CPC Symbol (existing)</b>	<b>To CPC Symbol(s)</b>
C	G01J 5/00	G01J 5/00, G01J 5/90
D	G01J 2005/0048	<administrative transfer to G01J 5/80 INV>
D	G01J 2005/0051	<administrative transfer to G01J 5/802 INV>
D	G01J 2005/0055	<administrative transfer to G01J 5/804 INV>
D	G01J 2005/0059	<administrative transfer to G01J 5/806 INV>
D	G01J 2005/0062	<administrative transfer to G01J 5/808 INV>
D	G01J 2005/0081	<administrative transfer to G01J 5/48 INV>
D	G01J 2005/0085	<administrative transfer to G01J 5/485 INV>
C	G01J 5/02	G01J 5/02, G01J 5/05, G01J 5/07
C	G01J 5/026	G01J 5/026, G01J 5/90
D	G01J 5/0285	<administrative transfer to G01J 5/068>
D	G01J 5/029	<administrative transfer to G01J 5/051>
D	G01J 5/043	<administrative transfer to G01J 5/05>
Q	G01J 5/064	G01J 5/064, G01J 5/70
D	G01J 2005/067	<administrative transfer to G01J 5/068 INV>
D	G01J 2005/068	<administrative transfer to G01J 5/064 INV>
C	G01J 5/08	G01J 5/08, G01J 5/0801, G01J 5/0803, G01J 5/0831
C	G01J 5/0803	G01J 5/0801, G01J 5/0803, G01J 5/0879
Q	G01J 5/0804	G01J 5/0804, G01J 5/0805
Q	G01J 5/0808	G01J 5/0808, G01J 5/0813, G01J 5/0814
D	G01J 5/0809	<administrative transfer to G01J 5/0808>
D	G01J 5/0812	<administrative transfer to G01J 5/0816>
Q	G01J5/0816	G01J 5/0816, G01J 5/0803
D	G01J 5/0825	<administrative transfer to G01J 5/59>
D	G01J 5/0828	<administrative transfer to G01J 5/08021>
D	G01J 5/0834	<administrative transfer to G01J 5/0804>
D	G01J 5/0862	<administrative transfer to G01J 5/0802>
D	G01J 5/089	<administrative transfer to G01J 5/07>
D	G01J 5/18	<administrative transfer to G01J 5/03>
D	G01J 5/26	<administrative transfer to G01J 5/03>
D	G01J 5/32	<administrative transfer to G01J 5/03>
C	G01J 5/34	G01J 5/34, G01J 5/35
D	G01J 5/50	<administrative transfer to G01J 5/00>
D	G01J 5/505	<administrative transfer to G01J 5/03>
D	G01J 5/522	<administrative transfer to G01J 5/53>
D	G01J 5/524	<administrative transfer to G01J 5/532>
D	G01J 2005/586	<administrative transfer to G01J 5/59 INV>
D	G01J 5/62	<administrative transfer to G01J 5/0805>
D	G01J 2005/623	<administrative transfer to G01J 5/0805 INV>
D	G01J 2005/626	<administrative transfer to G01J 5/0805 INV>

\* 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.

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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.
- 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>
G01J 2005/0048		DELETE
G01J 2005/0051		DELETE
G01J 2005/0055		DELETE
G01J 2005/0059		DELETE
G01J 2005/0062		DELETE
G01J 2005/0081		DELETE
G01J 2005/0085		DELETE
G01J 5/0285		DELETE
G01J 5/029		DELETE
G01J 5/03	G01J 5/03	NEW
G01J 5/043		DELETE
G01J 5/05	G01J 5/05	NEW
G01J 5/051	G01J 5/05	NEW
G01J 5/061	G01J 5/061	UPDATE
G01J 2005/062	G01J 5/061	UPDATE
G01J 2005/063	G01J 5/061	UPDATE
G01J 5/064	G01J 5/06	NEW
G01J 2005/067		DELETE
G01J 5/068	G01J 5/068	NEW
G01J 2005/068		DELETE
G01J 5/07	G01J 5/07	NEW
G01J 5/0801	G01J 5/0801	NEW
G01J 5/0802	G01J 5/0802	NEW
G01J 5/08021	G01J 5/0802	NEW
G01J 5/0803	G01J 5/0803	UPDATE
G01J 5/0804	G01J 5/0804	NEW
G01J 5/0805	G01J 5/0805	NEW
G01J 5/0806	G01J 5/0806	UPDATE
G01J 5/0808	G01J 5/0808	NEW
G01J 5/0809		DELETE
G01J 5/0812		DELETE
G01J 5/0813	G01J 5/0813	NEW
G01J 5/0814	G01J 5/08	NEW
G01J 5/0816	G01J 5/08	NEW
G01J 5/0818	G01J 5/0818	UPDATE
G01J 5/0821	G01J 5/0821	UPDATE
G01J 5/0825		DELETE
G01J 5/0828		DELETE
G01J 5/0831	G01J 5/0831	UPDATE
G01J 5/0834		DELETE
G01J 5/0862		DELETE
G01J 5/0875	G01J 5/0875	UPDATE

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
G01J 5/0879	G01J 5/08	NEW
G01J 5/089		DELETE
G01J 5/18		DELETE
G01J 5/26		DELETE
G01J 5/32		DELETE
G01J 5/35	G01J 5/35	NEW
G01J 5/485	G01J 5/48	NEW
G01J 5/50		DELETE
G01J 5/505		DELETE
G01J 5/522		DELETE
G01J 5/524		DELETE
G01J 5/53	G01J 5/53	NEW
G01J 5/532	G01J 5/53	NEW
G01J 2005/586		DELETE
G01J 5/59	G01J 5/59	NEW
G01J 5/62		DELETE
G01J 2005/623		DELETE
G01J 2005/626		DELETE
G01J 5/70	G01J 5/70	NEW
G01J 5/80	G01J 5/80	NEW
G01J 5/802	G01J 5/80	NEW
G01J 5/804	G01J 5/80	NEW
G01J 5/806	G01J 5/80	NEW
G01J 5/808	G01J 5/80	NEW
G01J 5/90	G01J 5/90	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 CICAL table above.
- T and M symbols are not included in the CICAL table above unless a change to the existing IPC is desired.

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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>Action; New reference symbol; New text</u>
C21C5/46	G01J5/62	Informative references	G01J 5/0805

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 in the tables above, in the column titled “Referenced subclass or group to be changed,” **referenced** D symbols should indicate an action of “delete” or should indicate a replacement symbol and **referenced** F symbols should indicate a replacement symbol.
- When a reference is deleted, text related to that reference will also be deleted unless other references or a range of references associated with the same text remain.