

CPC COOPERATIVE PATENT CLASSIFICATION

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](#))

NOTES

1. This subclass covers the detection of the presence or absence of infra-red, visible, or ultra-violet light, not otherwise provided for.
2. Attention is drawn to the Notes following the title of class [G01](#).

1/00	Photometry, e.g. photographic exposure meter (spectrophotometry G01J 3/00 ; specially adapted for radiation pyrometry G01J 5/00 {exposure meters built in cameras G03B 17/06 })	1/0411	. . . . {using focussing or collimating elements, i.e. lenses or mirrors; Aberration correction}
		1/0414	. . . . {using plane or convex mirrors, parallel phase plates, or plane beam-splitters}
1/02	. Details	1/0418	. . . . {using attenuators}
1/0204	. . {Compact construction}	1/0422	. . . . {using light concentrators, collectors or condensers}
1/0209	. . . {Monolithic}	1/0425	. . . . {using optical fibers}
1/0214	. . {Constructional arrangements for removing stray light}	1/0429	. . . . {using polarisation elements}
1/0219	. . {Electrical interface; User interface}	1/0433	. . . . {using notch filters}
1/0223	. . {Sample holders for photometry}	1/0437	. . . . {using masks, aperture plates, spatial light modulators, spatial filters, e.g. reflective filters}
1/0228	. . {Control of working procedures; Failure detection; Spectral bandwidth calculation}	1/044	. . . . {using shutters}
1/0233	. . {Handheld}	1/0444	. . . . {using means for replacing an element by another, e.g. for replacing a filter or grating}
1/0238	. . {making use of sensor-related data, e.g. for identification of sensor or optical parts}	1/0448	. . . . {Adjustable, e.g. focussing}
1/0242	. . {Control or determination of height or angle information of sensors or receivers; Goniophotometry}	1/0451	. . . . {using means for illuminating a slit efficiently, e.g. entrance slit of a photometer or entrance face of fiber}
1/0247	. . {using a charging unit}	1/0455	. . . . {having a throughhole enabling the optical element to fulfil an additional optical function, e.g. a mirror or grating having a through-hole for a light collecting or light injecting optical fibre}
1/0252	. . {Constructional arrangements for compensating for fluctuations caused by, e.g. temperature, or using cooling or temperature stabilization of parts of the device; Controlling the atmosphere inside a photometer; Purge systems, cleaning devices (protection against electromagnetic interferences G01J 2001/0276)}	1/0459	. . . . {using an optical amplifier of light or coatings to improve optical coupling}
2001/0257	. . {portable}	1/0462	. . . . {Slit arrangements}
2001/0261	. . . {Pocket size; Card size}	1/0466	. . . . {with a sighting port}
1/0266	. . {Field-of-view determination; Aiming or pointing of a photometer; Adjusting alignment; Encoding angular position; Size of the measurement area; Position tracking; Photodetection involving different fields of view for a single detector}	1/047	. . . . {using extension/expansion of solids or fluids, change of resonant frequency or extinction effect}
		1/0474	. . . . {Diffusers (cavities G01J 2001/0481)}
1/0271	. . {Housings; Attachments or accessories for photometers}	1/0477	. . . . {Prisms, wedges}
2001/0276	. . {Protection}	2001/0481	. . . {Preset integrating sphere or cavity}
2001/028	. . . {against liquid}	2001/0485	. . . {Cosinus correcting or purposely modifying the angular response of a light sensor}
2001/0285	. . . {against laser damage}	1/0488	. . . {with spectral filtering}
1/029	. . {Multi-channel photometry}	1/0492	. . . . {using at least two different filters}
1/0295	. . {Constructional arrangements for removing other types of optical noise or for performing calibration}	2001/0496	. . . . {using fiber Bragg gratings}
		1/06	. . . Restricting the angle of incident light
1/04	. . Optical or mechanical part {supplementary adjustable parts}	2001/061	. . . . {Baffles}
1/0403	. . . {Mechanical elements; Supports for optical elements; Scanning arrangements}	2001/062	. . . . {by fibre-optic packed bundle}
1/0407	. . . {Optical elements not provided otherwise, e.g. manifolds, windows, holograms, gratings}	2001/063	. . . . {with selectable field of view}
		2001/065	. . . . {by changing elements}
		2001/066	. . . . {with an aiming optical device}
		2001/067	. . . . {for angle scan}
		2001/068	. . . . {by diaphragm or the like}

1/08	. . . Arrangements of light sources specially adapted for photometry {standard sources, also using luminescent or radioactive material}	2001/242	. . . . . {Filter wheel, i.e. absorption filter series graduated}
2001/083	. . . {Testing response of detector}	2001/245	. . . . . {with two or more separate attenuated steps}
2001/086	. . . {Calibrating drift correction}	2001/247	. . . . . {of spectral wedge type}
1/10	. by comparison with reference light or electric value {provisionally void}	1/26	. . . . . adapted for automatic variation of the measured or reference value (regulation of light intensity G05D 25/00)
1/12	. . using wholly visual means (G01J 1/20 takes precedence)	1/28	. . . using variation of intensity or distance of source (G01J 1/34 takes precedence)
1/122	. . . {Visual exposure meters for determining the exposure time in photographic recording or reproducing}	1/30	. . . . . using electric radiation detectors
1/124	. . . . {based on the comparison of the intensity of measured light with a comparison source or comparison illuminated surface}	1/32	. . . . . adapted for automatic variation of the measured or reference value (regulation of light intensity G05D 25/00)
1/126	. . . . . {for enlarging apparatus}	1/34	. . . using separate light paths used alternately or sequentially, e.g. flicker
1/128	. . . . . {for copy- or printing apparatus}	1/36	. . . . . using electric radiation detectors
1/14	. . . using comparison with a surface of graded brightness, {(e.g. for view taking; for analytical applications G01N 21/293)}	2001/363	. . . . . {Chopper stabilisation}
1/16	. . using electric radiation detectors (G01J 1/20 takes precedence)	2001/366	. . . . . {Balancing two paths}
2001/1605	. . . {Null method}	1/38	. using wholly visual means (G01J 1/10 takes precedence)
2001/161	. . . {Ratio method, i.e. Im/Ir}	1/40	. . using limit or visibility or extinction effect
2001/1615	. . . . {Computing a difference/sum ratio, i.e. (Im - Ir) / (Im + Ir)}	1/42	. using electric radiation detectors (optical or mechanical part G01J 1/04; by comparison with a reference light or electric value G01J 1/10)
2001/1621	. . . . {Comparing a duty ratio of pulses}	1/4204	. . {with determination of ambient light (solar light G01J 2001/4266)}
1/1626	. . . {Arrangements with two photodetectors, the signals of which are compared}	1/4209	. . {Photoelectric exposure meters for determining the exposure time in recording or reproducing}
2001/1631	. . . . {Bridge circuit}	1/4214	. . . {specially adapted for view-taking apparatus}
2001/1636	. . . . {one detector directly monitoring the source, e.g. also impulse time controlling}	1/4219	. . . {specially adapted for enlargers}
2001/1642	. . . . . {and acting on the detecting circuit}	1/4223	. . . {specially adapted for copy - or printing apparatus}
2001/1647	. . . . . {one signal maintained constant}	1/4228	. . {arrangements with two or more detectors, e.g. for sensitivity compensation}
2001/1652	. . . . . {one detector being transparent before the other one}	2001/4233	. . . {with selection of detector}
2001/1657	. . . . . {one signal being spectrally modified, e.g. for UV}	2001/4238	. . {Pulsed light}
2001/1663	. . . . . {two detectors of different sensitivity}	2001/4242	. . {Modulated light, e.g. for synchronizing source and detector circuit}
2001/1668	. . . {the measuring signal itself varying in time, e.g. periodic, for example blood pulsation}	2001/4247	. . {for testing lamps or other light sources}
2001/1673	. . . {using a reference sample}	2001/4252	. . . {for testing LED's}
2001/1678	. . . {Comparing time separated signals, i.e. chopped}	1/4257	. . {applied to monitoring the characteristics of a beam, e.g. laser beam, headlamp beam (monitoring arrangements for lasers in general H01S 3/0014)}
2001/1684	. . . . {and selecting also a DC level from the signal}	2001/4261	. . . {Scan through beam in order to obtain a cross-sectional profile of the beam}
2001/1689	. . . . {one separated signal being processed differently}	2001/4266	. . {for measuring solar light}
2001/1694	. . . . {with a signal from on/off switched light source}	2001/4271	. . . {Pyrrheliometer}
1/18	. . . using comparison with a reference electric value	2001/4276	. . . {Solar energy integrator over time}
2001/182	. . . . {with SH sample and hold circuits}	2001/428	. . . {for sunlight scattered by atmosphere}
2001/184	. . . . . {on a succession of signals}	2001/4285	. . . {Pyranometer, i.e. integrating over space}
2001/186	. . . . {Comparison or correction from an electric source within the processing circuit}	1/429	. . {applied to measurement of ultraviolet light (using counting tubes G01T)}
2001/188	. . . . . {on pulse train}	2001/4295	. . {using a physical effect not covered by other subgroups of G01J 1/42}
1/20	. . intensity of the measured or reference value being varied to equalise their effects at the detectors, e.g. by varying incidence angle	1/44	. . Electric circuits {(for command of an exposure part G03B 7/02)}
1/22	. . . using a variable element in the light-path, e.g. filter, polarising means (G01J 1/34 takes precedence)	2001/4406	. . . {Plural ranges in circuit, e.g. switchable ranges; Adjusting sensitivity selecting gain values}
1/24	. . . . using electric radiation detectors	2001/4413	. . . {Type}
		2001/442	. . . . {Single-photon detection or photon counting}

2001/4426	. . . . {with intensity to frequency or voltage to frequency conversion [IFC or VFC]}	3/0251	. . . {Colorimeters making use of an integrating sphere}
2001/4433	. . . . {Peak sensing}	3/0254	. . . {Spectrometers, other than colorimeters, making use of an integrating sphere}
2001/444	. . . {Compensating; Calibrating, e.g. dark current, temperature drift, noise reduction or baseline correction; Adjusting}	3/0256	. . {Compact construction}
2001/4446	. . . {Type of detector}	3/0259	. . . {Monolithic}
2001/4453	. . . . {PMT}	3/0262	. . {Constructional arrangements for removing stray light}
2001/446	. . . . {Photodiode}	3/0264	. . {Electrical interface; User interface}
2001/4466	. . . . . {Avalanche}	3/0267	. . {Sample holders for colorimetry}
2001/4473	. . . . {Phototransistor}	3/027	. . {Control of working procedures of a spectrometer; Failure detection; Bandwidth calculation}
2001/448	. . . . {Array [CCD]}	3/0272	. . {Handheld}
2001/4486	. . . . {Streak tube}	3/0275	. . {making use of sensor-related data, e.g. for identification of sensor parts or optical elements}
2001/4493	. . . . {with image intensifier tube [IIT]}	3/0278	. . {Control or determination of height or angle information for sensors or receivers}
1/46	. . . using a capacitor	2003/0281	. . {slitless}
1/48	. using chemical effects	3/0283	. . {using a charging unit}
1/50	. . using change in colour of an indicator, e.g. actinometer	3/0286	. . {Constructional arrangements for compensating for fluctuations caused by temperature, humidity or pressure, or using cooling or temperature stabilization of parts of the device; Controlling the atmosphere inside a spectrometer, e.g. vacuum}
1/52	. . using photographic effects	3/0289	. . {Field-of-view determination; Aiming or pointing of a spectrometer; Adjusting alignment; Encoding angular position; Size of measurement area; Position tracking}
1/54	. . by observing photo-reactions between gases	3/0291	. . {Housings; Spectrometer accessories; Spatial arrangement of elements, e.g. folded path arrangements}
1/56	. using radiation pressure or radiometer effect	3/0294	. . {Multi-channel spectroscopy}
1/58	. using luminescence generated by light	3/0297	. . {Constructional arrangements for removing other types of optical noise or for performing calibration}
1/60	. by measuring the pupil of the eye	3/04	. . Slit arrangements {slit adjustment}
3/00	Spectrometry; Spectrophotometry; Monochromators; Measuring colour	2003/042	. . . {Slit wheel}
2003/003	. {Comparing spectra of two light sources}	2003/045	. . . {Sequential slits; Multiple slits}
2003/006	. {Fundamentals or review articles}	2003/047	. . . {Configuration of two or more entry or exit slits for predetermined delta-lambda}
3/02	. Details	3/06	. . Scanning arrangements {arrangements for order-selection}
3/0202	. . {Mechanical elements; Supports for optical elements}	2003/061	. . . {Mechanisms, e.g. sine bar}
3/0205	. . {Optical elements not provided otherwise, e.g. optical manifolds, diffusers, windows}	2003/062	. . . {motor-driven}
3/0208	. . . {using focussing or collimating elements, e.g. lenses or mirrors; performing aberration correction}	2003/063	. . . . {Step motor}
3/021	. . . {using plane or convex mirrors, parallel phase plates, or particular reflectors}	2003/064	. . . {Use of other elements for scan, e.g. mirror, fixed grating}
3/0213	. . . {using attenuators}	2003/065	. . . . {Use of fibre scan for spectral scan}
3/0216	. . . {using light concentrators or collectors or condensers}	2003/066	. . . {Microprocessor control of functions, e.g. slit, scan, bandwidth during scan}
3/0218	. . . {using optical fibers}	2003/067	. . . {Use of plane parallel plate, e.g. small scan, wobble}
3/0221	. . . . {the fibers defining an entry slit}	2003/068	. . . {tuned to preselected wavelengths}
3/0224	. . . {using polarising or depolarising elements}	2003/069	. . . {Complex motion, e.g. rotation of grating and correcting translation}
3/0227	. . . {using notch filters}	3/08	. . Beam switching arrangements
3/0229	. . . {using masks, aperture plates, spatial light modulators or spatial filters, e.g. reflective filters}	3/10	. . Arrangements of light sources specially adapted for spectrometry or colorimetry
3/0232	. . . {using shutters}	2003/102	. . . {Plural sources}
3/0235	. . . {using means for replacing an element by another, for replacing a filter or a grating}	2003/104	. . . . {Monochromatic plural sources}
3/0237	. . . {Adjustable, e.g. focussing}		
3/024	. . . {using means for illuminating a slit efficiently (e.g. entrance slit of a spectrometer or entrance face of fiber)}		
3/0243	. . . {having a through-hole enabling the optical element to fulfil an additional optical function, e.g. a mirror or grating having a throughhole for a light collecting or light injecting optical fiber}		
3/0245	. . . {using an optical amplifier of light, e.g. doped fiber}		
3/0248	. . . {using a sighting port, e.g. camera or human eye}		

- 2003/106 {the two sources being alternating or selectable, e.g. in two ranges or line:continuum}
- 3/108 {for measurement in the infra-red range}
- 3/12 . Generating the spectrum; Monochromators
- 2003/1204 . . . {Grating and filter}
- 2003/1208 . . . {Prism and grating}
- 2003/1213 . . . {Filters in general, e.g. dichroic, band}
- 2003/1217 {Indexed discrete filters or choppers}
- 2003/1221 {Mounting; Adjustment}
- 2003/1226 . . . {Interference filters}
- 2003/123 {Indexed discrete filters}
- 2003/1234 {Continuously variable IF [CVIF]; Wedge type}
- 2003/1239 {and separate detectors}
- 2003/1243 {Pivoting IF or other position variation}
- 2003/1247 {Tuning}
- 2003/1252 {Using "resonance cell", e.g. Na vapor}
- 3/1256 . . . {using acousto-optic tunable filter; (acousto-optic elements or systems [G02F 1/11](#), [G02F 1/33](#))}
- 2003/126 . . . {Focal isolation type}
- 2003/1265 . . . {the wavelengths being separated in time, e.g. through optical fibre array}
- 2003/1269 . . . {Electrooptic filter}
- 2003/1273 . . . {Order selection}
- 2003/1278 . . . {Mask with spectral selection}
- 2003/1282 . . . {Spectrum tailoring}
- 2003/1286 . . . {Polychromator in general}
- 2003/1291 . . . {polarised, birefringent}
- 2003/1295 . . . {Plural entry slits, e.g. for different incidences}
- 3/14 . . . using refracting elements, e.g. prisms ([G01J 3/18](#), [G01J 3/26](#) take precedence {prisms per se [G02B 5/04](#)})
- 2003/145 {Prism systems for straight view}
- 3/16 with autocollimation
- 3/18 . . . using diffraction elements, e.g. grating ([gratings per se \[G02B\]\(#\)](#))
- 3/1804 {Plane gratings}
- 3/1809 {Echelle gratings}
- 2003/1814 {Double monochromator}
- 2003/1819 {Double pass monochromator}
- 2003/1823 {subtractive}
- 2003/1828 {with order sorter or prefilter}
- 3/1833 {Grazing incidence}
- 3/1838 {Holographic gratings}
- 2003/1842 {Types of grating}
- 2003/1847 {Variable spacing}
- 2003/1852 {Cylindric surface}
- 2003/1857 {Toroid surface}
- 2003/1861 {Transmission gratings}
- 2003/1866 {Monochromator for three or more wavelengths}
- 2003/1871 {Duochromator}
- 2003/1876 {Polychromator}
- 2003/188 {Constant deviation}
- 2003/1885 {Holder for interchangeable gratings, e.g. at different ranges of wavelengths}
- 3/189 {using at least one grating in an off-plane configuration}
- 3/1895 {using fiber Bragg gratings or gratings integrated in a waveguide}
- 3/20 Rowland circle spectrometers
- 3/22 Littrow mirror spectrometers
- 3/24 using gratings profiled to favour a specific order
- 3/26 . . . using multiple reflection, e.g. Fabry-Perot interferometer, variable interference filters
- 2003/262 {Double pass; Multiple pass}
- 2003/265 {Read out, e.g. polychromator}
- 2003/267 {of the SISAM type}
- 3/28 . . . Investigating the spectrum ([using colour filters \[G01J 3/51\]\(#\)](#))
- 3/2803 {using photoelectric array detector}
- 2003/2806 {Array and filter array}
- 2003/2809 {Array and correcting filter}
- 2003/2813 {2D-array}
- 2003/2816 {Semiconductor laminate layer}
- 2003/282 {Modified CCD or like}
- 3/2823 . . . {Imaging spectrometer}
- 2003/2826 {Multispectral imaging, e.g. filter imaging}
- 2003/283 . . . {computer-interfaced}
- 2003/2833 {and memorised spectra collection}
- 2003/2836 {Programming unit, i.e. source and date processing}
- 2003/284 {Spectral construction}
- 2003/2843 {Processing for eliminating interfering spectra}
- 3/2846 . . . {using modulation grid; Grid spectrometers}
- 2003/285 {Hadamard transformation}
- 2003/2853 . . . {Averaging successive scans or readings}
- 2003/2856 {and calculation of standard deviation}
- 2003/2859 . . . {Peak detecting in spectrum}
- 2003/2863 {and calculating peak area}
- 2003/2866 . . . {Markers; Calibrating of scan}
- 2003/2869 {Background correcting}
- 2003/2873 {Storing reference spectrum}
- 2003/2876 {Correcting linearity of signal}
- 2003/2879 {Calibrating scan, e.g. Fabry Perot interferometer}
- 2003/2883 {Correcting overlapping}
- 2003/2886 . . . {Investigating periodic spectrum}
- 3/2889 . . . {Rapid scan spectrometers; Time resolved spectrometry}
- 2003/2893 {with rotating grating}
- 2003/2896 . . . {Vidicon, image intensifier tube}
- 3/30 . . . Measuring the intensity of spectral line directly on the spectrum itself ([G01J 3/42](#), [G01J 3/44](#) take precedence)
- 3/32 Investigating bands of a spectrum in sequence by a single detector
- 2003/323 {Comparing line:background}
- 2003/326 {Scanning mask, plate, chopper, e.g. small spectrum interval}
- 3/36 Investigating two or more bands of a spectrum by separate detectors
- 3/40 . . . Measuring the intensity of spectral lines by determining density of a photograph of the spectrum; Spectrography ([G01J 3/42](#), [G01J 3/44](#) take precedence)
- 3/42 . . . Absorption spectrometry; Double beam spectrometry; Flicker spectrometry; Reflection spectrometry ([beam switching arrangements \[G01J 3/08\]\(#\)](#))
- 2003/421 {Single beam}
- 2003/423 {Spectral arrangements using lasers, e.g. tunable}

- 2003/425 . . . {Reflectance}
- 3/427 . . . Dual wavelengths spectrometry
- 2003/4275 {Polarised dual wavelength spectrometry}
- 3/433 . . . Modulation spectrometry; Derivative spectrometry
- 2003/4332 {frequency-modulated}
- 2003/4334 {by modulation of source, e.g. current modulation}
- 2003/4336 {by magnetic modulation, e.g. Zeeman effect}
- 3/4338 {Frequency modulated spectrometry}
- 3/44 . . Raman spectrometry; Scattering spectrometry; {Fluorescence spectrometry}
- 3/4406 . . . {Fluorescence spectrometry}
- 3/4412 . . . {Scattering spectrometry (particle sizing by light scattering [G01N 15/0205](#); optical velocimetry of particles [G01P 5/20](#), [G01P 5/26](#))}
- 2003/4418 {Power spectrum}
- 2003/4424 . . . {Fluorescence correction for Raman spectrometry}
- 3/443 . . Emission spectrometry
- 2003/4435 . . . {Measuring ratio of two lines, e.g. internal standard}
- 3/447 . . Polarisation spectrometry
- 3/45 . . Interferometric spectrometry
- 2003/451 . . . {Dispersive interferometric spectrometry}
- 2003/452 . . . {with recording of image of spectral transformation, e.g. hologram}
- 3/453 . . . by correlation of the amplitudes
- 3/4531 {Devices without moving parts}
- 3/4532 {Devices of compact or symmetric construction ([G01J 3/4531](#) takes precedence)}
- 2003/4534 {Interferometer on illuminating side}
- 3/4535 {Devices with moving mirror ([G01J 3/4532](#) takes precedence)}
- 3/4537 {Devices with refractive scan}
- 2003/4538 {Special processing}
- 3/457 . . Correlation spectrometry, e.g. of the intensity ([G01J 3/453](#) takes precedence)
- 3/46 . . Measurement of colour; Colour measuring devices, e.g. colorimeters ([measuring colour temperature G01J 5/60](#))
- 3/461 . . {with colour spinners}
- 3/462 . . {Computing operations in or between colour spaces; Colour management systems}
- 3/463 . . {Colour matching}
- 3/465 . . {taking into account the colour perception of the eye; using tristimulus detection}
- 2003/466 . . {Coded colour; Recognition of predetermined colour; Determining proximity to predetermined colour}
- 2003/467 . . {Colour computing}
- 2003/468 . . {of objects containing fluorescent agent}
- 3/50 . . using electric radiation detectors
- 3/501 . . . {Colorimeters using spectrally-selective light sources, e.g. LEDs}
- 3/502 . . . {using a dispersive element, e.g. grating, prism}
- 2003/503 . . . {Densitometric colour measurements}
- 3/504 . . . {Goniometric colour measurements, for example measurements of metallic or flake based paints}
- 3/505 . . . {measuring the colour produced by lighting fixtures other than screens, monitors, displays or CRTs}
- 3/506 . . . {measuring the colour produced by screens, monitors, displays or CRTs}
- 2003/507 . . . {the detectors being physically selective}
- 3/508 . . . {measuring the colour of teeth}
- 3/51 . . . using colour filters
- 3/513 {having fixed filter-detector pairs}
- 2003/516 {with several stacked filters or stacked filter-detector pairs}
- 3/52 . . using colour charts
- 3/522 . . . {circular colour charts}
- 3/524 . . . {Calibration of colorimeters}
- 3/526 . . . {for choosing a combination of different colours, e.g. to produce a pleasing effect for an observer}
- 3/528 {using colour harmony theory}
- 4/00 Measuring polarisation of light (investigating or analysing materials by measuring rotation of plane of polarised light [G01N 21/21](#))**
- 2004/001 . {Devices}
- 2004/002 . . {Selecting polarisation direction}
- 2004/004 . . . {sequential, i.e. time-divided}
- 2004/005 . . . {simultaneous, i.e. space-divided}
- 2004/007 . . . {Mechanical mounting}
- 2004/008 . {Polarisation rate}
- 4/02 . Polarimeters of separated-field type; Polarimeters of half-shadow type
- 4/04 . Polarimeters using electric detection means ([G01J 4/02](#) takes precedence)
- 5/00 Radiation pyrometry (photometry in general [G01J 1/00](#); spectrometry in general [G01J 3/00](#) {measuring temperature in general, i.e. with a contacting sensor [G01K](#); calorimetry of radiation beams [G01K 17/00](#); direction finders for radiant sources [G01S](#); intrusion detection by radiation [G08B](#)})**
- 5/0003 . {for sensing the radiant heat transfer of samples, e.g. emittance meter}
- 5/0007 . . {of wafers or semiconductor substrates, e.g. using Rapid Thermal Processing}
- 5/0011 . . {Ear thermometers ([G01J 5/021](#) and [G01J 5/049](#) take precedence)}
- 5/0014 . {for sensing the radiation from gases, flames}
- 5/0018 . . {Flames, plasma or welding}
- 5/0022 . {for sensing the radiation of moving bodies}
- 5/0025 . . {Living bodies ([ear thermometers G01J 5/0011](#); detecting, measuring or recording for diagnostic purposes [A61B 5/00](#))}
- 2005/0029 . . {Sheet}
- 2005/0033 . . {Wheel}
- 5/0037 . {for sensing the heat emitted by liquids}
- 5/004 . . {by molten metals}
- 5/0044 . {Furnaces, ovens, kilns ([G01J 5/0007](#), [G01J 5/004](#) take precedence)}
- 2005/0048 . {Calibrating; Correcting}
- 2005/0051 . . {Methods for correcting for emissivity}
- 2005/0055 . . {Atmospheric correction}

2005/0059	. . {Correcting for reflection of the emitter radiation}	5/044	. . . . {Environment with strong vibrations or shocks}
2005/0062	. . {Linearising circuits}	5/045	. . . . {Sealings; Vacuum enclosures; Encapsulated packages; Wafer bonding structures; Getter arrangements (getter arrangements per se H01L 23/26 and H01L 21/3221)}
5/0066	. {for hot spots detection}	5/046	. . . {Materials; Selection of thermal materials}
5/007	. {for earth observation}	5/047	. . . {Mobile mounting; Scanning arrangements}
2005/0074	. {having separate detection of emissivity}	5/048	. . . {Protective parts}
2005/0077	. {Imaging}	5/049	. . . {Casings for tympanic thermometers}
2005/0081	. {Thermography}	5/06	. . Arrangements for eliminating effects of disturbing radiation
2005/0085	. . {Temperature profile}	5/061	. . . {using cooling or thermostating of parts of the apparatus (cooling techniques in general F17C, F25J)}
5/0088	. {in turbines}	2005/062	. . . . {Peltier}
2005/0092	. {Temperature by averaging, e.g. by scan (scan intended for space- resolved determination G01J 2005/0081)}	2005/063	. . . . {Heating; Thermostating}
5/0096	. {for measuring wires, electrical contacts or electronic systems}	2005/065	. . . {by shielding}
5/02	. Details	2005/066	. . . {Differential arrangement, i.e. sensitive/not sensitive}
5/0205	. . {Mechanical elements; Supports for optical elements}	2005/067	. . . {Compensating for environment parameters}
5/021	. . {Probe covers for thermometers, e.g. tympanic thermometers; Containers for probe covers; Disposable probes}	2005/068	. . . . {Ambient temperature sensor; Housing temperature sensor}
5/0215	. . {Compact construction}	5/08	. . Optical features (optical-mechanical scanning H04N 5/33, G02B 26/10)}
5/022	. . . {Monolithic}	5/0803	. . . {Optical elements not provided otherwise, e.g. optical manifolds, gratings, holograms, cubic beamsplitters, prisms, particular coatings}
5/0225	. . {Shape of the cavity itself or of elements contained in or suspended over the cavity}	5/0806	. . . . {using focussing or collimating elements, e.g. lenses or mirrors}
5/023	. . . {Particular leg structure or construction or shape; Nanotubes}	5/0809	. . . . {using plane or convex mirrors, parallel phase plates or particular reflectors}
5/0235	. . . {Spacers, e.g. for avoidance of stiction}	5/0812	. . . . {using attenuators}
5/024	. . . {Special manufacturing steps or sacrificial layers or layer structures}	5/0815	. . . . {using light concentrators, collectors or condensers}
5/0245	. . . {for performing thermal shunt}	5/0818	. . . . {using waveguides, rods or tubes}
5/025	. . {Interfacing a pyrometer to an external device or network; User interface}	5/0821	. . . . {using optical fibers}
5/0255	. . {Sample holders for pyrometry; Cleaning of sample (using a gas purge G01J 5/029)}	5/0825	. . . . {using polarizing elements}
5/026	. . {Control of working procedures of a pyrometer, other than calibration (calibration G01J 2005/0048 and G01J 5/522); Detecting failures in the functioning of a pyrometer; Bandwidth calculation; Gain control; Security control}	5/0828	. . . . {using notch filters}
5/0265	. . {Handheld, portable (ear thermometers G01J 5/049)}	5/0831	. . . . {using masks, e.g. structured apertures, using aperture plates or using spatial light modulators or spatial filters, e.g. reflective filters}
5/027	. . {making use of sensor-related data, e.g. for identification of sensor parts or optical elements}	5/0834	. . . . {using shutters or modulators}
5/0275	. . {Control or determination of height or distance or angle information for sensors or receivers}	5/0837	. . . . {using micro-antennas, e.g. bow-tie}
5/028	. . {using a charging unit or battery}	5/084	. . . . {Adjustable, slidable}
5/0285	. . {Constructional arrangements for compensating for fluctuations caused by humidity, pressure or electromagnetic waves; Controlling the atmosphere inside a pyrometer (G01J 5/029 takes precedence)}	5/0843	. . . . {Manually adjustable}
5/029	. . {using a gas purge}	5/0846	. . . . {using multiple detectors for performing different types of detection, e.g. radiometry and reflectometry channels}
5/0295	. . {Nulling devices or absolute detection}	5/085	. . . . {having a throughhole enabling the optical element to fulfil an additional optical function, e.g. a mirror or grating having a throughhole for a light collecting or light injecting optical fiber}
5/04	. . Casings {Mountings}	5/0853	. . . . {using 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}
5/041	. . . {Mountings in enclosures or in a particular environment}	5/0856	. . . . {Slit arrangements}
5/042	. . . . {High-temperature environment (G01J 5/0007, G01J 5/0044, G01J 5/0088 and G01J 5/004 take precedence)}	5/0859	. . . . {using a sighting arrangement, or a camera for the same purpose}
5/043	. . . . {Prevention or determination of dust, smog or clogging (G01J 5/029 takes precedence)}		

5/0862	. . . . {using optical filters (G01J 5/602 , G01J 5/0828 take precedence)}	5/28	. . . using photo-emissive, photo-conductive, or photo-voltaic cells
5/0865	. . . . {using means for replacing an element by another, e.g. for replacing a filter}	2005/283	. . . {Array}
5/0868	. . . . {using means for illuminating a slit or a surface efficiently, e.g. entrance slit of a pyrometer or entrance face of a fiber}	2005/286	. . . . {Arrangement of conductor therefor}
5/0871	. . . . {Beam switching arrangements; Photodetection involving different fields of view for a single detector}	5/30	. . . Electrical features
5/0875	. . . . {Windows or their fastening arrangements}	5/32	. . . . Special adaptation for indicating or recording (indicating or recording measured values in general G01D)
5/0878	. . . . {Diffusers}	5/34	. . . using capacitors {, e.g. pyroelectric elements}
5/0881	. . . {Compact construction}	2005/345	. . . {Arrays}
5/0884	. . . . {Monolithic}	5/36	. . . using ionisation of gases
5/0887	. . . {Integrating cavities mimicking black bodies, wherein the heat propagation between the black body and the measuring element does not occur within a solid; Use of bodies placed inside the fluid stream for measurement of the temperature of gases; Use of the reemission from a surface, e.g. reflective surface; Emissivity enhancement by multiple reflections}	5/38	. . . using extension or expansion of solids or fluids
5/089	. . . {Field-of-view determination; Aiming or pointing of a pyrometer; Adjusting alignment; Encoding angular position; Size of the measuring area; Position tracking}	5/40	. . . using bimetallic elements
5/0893	. . . {Arrangements to attach devices to a pyrometer, i.e. attaching an optical interface; Spatial relative arrangement of optical elements, e.g. folded beam path (G01J 5/049 takes precedence)}	5/42	. . . using Golay cells
5/0896	. . . {using a light source, e.g. for illuminating a surface}	2005/425	. . . {Micro-array}
5/10	. . . using electric radiation detectors	5/44	. . . using change of resonant frequency, e.g. of piezo-electric crystal
2005/103	. . . {Absorbing heated plate or film and temperature detector}	5/46	. . . using radiation pressure or radiometer effect
2005/106	. . . {Arrays}	5/48	. . . using wholly visual means
5/12	. . . using thermoelectric elements, e.g. thermocouples (thermoelectric elements per se H01L 35/00 , H01L 37/00)	5/50	. . . using techniques specified in the subgroups below
2005/123	. . . . {Thermoelectric array}	5/505	. . . {using photographic recording}
2005/126	. . . . {Thermoelectric black plate and thermocouple}	5/52	. . . using comparison with reference sources, e.g. disappearing-filament pyrometer
5/14	. . . Electrical features	5/522	. . . {Reference sources, e.g. standard lamps; Black bodies}
5/16	. . . . Arrangements with respect to the cold junction; Compensating influence of ambient temperature or other variables	5/524	. . . {using a reference heater of the emissive surface type, e.g. for selectively absorbing materials}
5/18	. . . . Special adaptation for indicating or recording (indicating or recording measured values in general G01D)	2005/526	. . . {Periodic insertion of emissive surface}
5/20	. . . using resistors, thermistors, or semi-conductors sensitive to radiation	2005/528	. . . {Periodic comparison}
2005/202	. . . . {Arrays}	5/54	. . . Optical features
2005/204	. . . . {prepared by semiconductor processing, e.g. VLSI}	5/56	. . . Electrical features
2005/206	. . . . {on foils}	5/58	. . . using absorption; using polarisation; using extinction effect
2005/208	. . . . {superconductive}	2005/583	. . . {Interferences, i.e. fringe variation with temperature}
5/22	. . . Electrical features	2005/586	. . . {Polarisation}
5/24	. . . . Use of a specially-adapted circuit, e.g. bridge circuit	5/60	. . . using determination of colour temperature {Pyrometry using two wavelengths filtering; using selective, monochromatic or bandpass filtering; using spectral scanning}
5/26	. . . . Special adaptation for indicating or recording (indicating or recording measured values in general G01D)	5/601	. . . {using spectral scanning}
		5/602	. . . {using selective, monochromatic or bandpass filtering}
		2005/604	. . . . {bandpass filtered}
		5/605	. . . {using visual determination}
		2005/607	. . . {on two separate detectors}
		2005/608	. . . {Colour temperature of lamps, sources or the like}
		5/62	. . . using means for chopping the light {Compensation for background radiation of chopper element}
		2005/623	. . . . {Compensating radiation of chopper}
		2005/626	. . . . {Electrooptic chopper}
		7/00	Measuring velocity of light
		9/00	Measuring optical phase difference (devices or arrangements for controlling the phase of light beams G02F 1/01); Determining degree of coherence; Measuring optical wavelength (spectrometry G01J 3/00)
		2009/002	. . . {Wavefront phase distribution}
		2009/004	. . . {Mode pattern}

- 2009/006 . {using pulses for physical measurements}
- 2009/008 . . {using decay time in cavity}
- 9/02 . by interferometric methods ([using interferometers for measuring optically the linear dimensions of objects G01B 9/02](#))
- 2009/0203 . . {Phased array of beams}
- 2009/0207 . . {Double frequency, e.g. Zeeman}
- 2009/0211 . . {for measuring coherence}
- 9/0215 . . {by shearing interferometric methods}
- 2009/0219 . . . {using two or more gratings}
- 2009/0223 . . {Common path interferometry; Point diffraction interferometry}
- 2009/0226 . . {Fibres}
- 2009/023 . . . {of the integrated optical type}
- 2009/0234 . . {Measurement of the fringe pattern}
- 2009/0238 . . . {the pattern being processed optically, e.g. by Fourier transformation}
- 2009/0242 . . {Compensator}
- 9/0246 . . {Measuring optical wavelength}
- 2009/0249 . . {with modulation}
- 2009/0253 . . . {of wavelength}
- 2009/0257 . . {multiple, e.g. Fabry Perot interferometer}
- 2009/0261 . . {polarised}
- 2009/0265 . . . {with phase modulation}
- 2009/0269 . . {Microscope type}
- 2009/0273 . . {Ring interferometer}
- 2009/0276 . . {Stellar interferometer, e.g. Sagnac}
- 2009/028 . . {Types}
- 2009/0284 . . . {Michelson}
- 2009/0288 . . . {Machzehnder}
- 2009/0292 . . . {Fizeau; Wedge}
- 2009/0296 . . . {achromatic}
- 9/04 . by beating two waves of a same source but of different frequency and measuring the phase shift of the lower frequency obtained
- 11/00 Measuring the characteristics of individual optical pulses or of optical pulse trains**
- 2011/005 . {Streak cameras}