

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1362

DATE: JANUARY 1, 2023

PROJECT MP11759

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Titles Changed:	G05D	Subclass
	G05D	3/00
	G05D	7/00
	G05D	9/00
	G05D	11/00
	G05D	13/00, 13/30, 13/34
	G05D	16/02
	G05D	19/00
	G05D	22/00
	G05D	23/00, 23/08, 23/10, 23/30
	G05D	25/00
Notes New:	G05D	7/00
Notes Modified:	G05D	23/00
DEFINITIONS:		
Definitions New:	G05D	3/12
	G05D	13/30, 13/34
	G05D	16/02
Definitions Modified:	G05D	Subclass
	G05D	3/00
	G05D	5/00
	G05D	7/00
	G05D	9/00
	G05D	11/00
	G05D	13/00
	G05D	15/00
	G05D	16/00
	G05D	17/00
	G05D	19/00
	G05D	21/00
	G05D	22/00
	G05D	23/00
	G05D	25/00

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

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This Notice of Changes includes the following [Check the ones included]:

1. CLASSIFICATION SCHEME CHANGES

- A. New, Modified or Deleted Group(s)
- B. New, Modified or Deleted Warning(s)
- C. New, Modified or Deleted Note(s)
- D. New, Modified or Deleted Guidance Heading(s)

2. DEFINITIONS

- A. New or Modified Definitions (Full definition template)
- B. Modified or Deleted Definitions (Definitions Quick Fix)

3. REVISION CONCORDANCE LIST (RCL)

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

5. CHANGES TO THE CROSS-REFERENCE LIST (CRL)

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS G05D - SYSTEMS FOR CONTROLLING OR REGULATING NON-ELECTRIC VARIABLES

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of</u> <u>dots (e.g. 0, 1,</u> <u>2)</u>	<u>Title</u> <u>“CPC only” text should normally be</u> <u>enclosed in {curly brackets}**</u>	<u>Transferred</u> <u>to#</u>
M	G05D	Subclass	SYSTEMS FOR CONTROLLING OR REGULATING NON-ELECTRIC VARIABLES	
M	G05D3/00	0	Control of position or direction (G05D1/00 takes precedence; numerical control to execute positioning G05B19/18)	
M	G05D7/00	0	Control of flow (level control G05D9/00; control of flow ratio G05D11/00)	
M	G05D9/00	0	Level control, e.g. controlling quantity of material stored in vessel	
M	G05D11/00	0	Control of flow ratio (control of chemical or physico-chemical variables, e.g. pH-value, G05D21/00; control of humidity G05D22/00; control of temperature by varying the mixing ratio of two fluids having different temperatures G05D23/13; control of viscosity G05D24/00)	
M	G05D13/00	0	Control of linear speed; Control of angular speed; Control of acceleration or deceleration, e.g. of a prime mover	
M	G05D13/30	2	Governors characterised by fluid features in which the speed of a shaft is converted into fluid pressure	
M	G05D13/34	1	with auxiliary non-electric power	
M	G05D16/02	1	Modifications to reduce the effects of instability, e.g. due to vibrations, friction, abnormal temperature, overloading or unbalance	
M	G05D19/00	0	Control of mechanical oscillations, e.g. of amplitude, of frequency, of phase	
M	G05D22/00	0	Control of humidity	
M	G05D23/00	0	Control of temperature	
M	G05D23/08	3	with bimetallic element	
M	G05D23/10	4	with snap-action elements	
M	G05D23/30	2	Automatic controllers with an auxiliary heating device affecting the sensing element, e.g. for anticipating change of temperature	
M	G05D25/00	0	Control of light, e.g. intensity, colour or phase (optical devices or arrangements using movable or deformable elements for controlling light independent of the light source G02B26/00; devices or arrangements, the optical operation of which is modified by changing the optical properties of the medium of the devices or arrangements	

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			for the control of light, circuit arrangements specially adapted therefor, control of light by electro-magnetic waves, electrons or other elementary particles G02F1/00)	
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*N = new entries where reclassification into entries is involved; C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; T = existing entries with enlarged file scope, which receive documents from C or D entries, e.g. when a limiting reference is removed from the entry title; M = entries with no change to the file scope (no reclassification); D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed; U = entries that are unchanged.

NOTES:

- **No {curly brackets} are used for titles in CPC only subclasses, e.g. C12Y, A23Y; 2000 series symbol titles of groups found at the end of schemes (orthogonal codes); or the Y section titles. The {curly brackets} are used for 2000 series symbol titles found interspersed throughout the main trunk schemes (breakdown codes).
- U groups: it is obligatory to display the required “anchor” symbol (U group), i.e. the entry immediately preceding a new group or an array of new groups to be created (in case new groups are not clearly subgroups of C-type groups). Always include the symbol, indent level and title of the U group in the table above.
- All entry types should be included in the scheme changes table above for better understanding of the overall scheme change picture. Symbol, indent level, and title are required for all types.
- “Transferred to” column must be completed for all C, D, F, and Q type entries. F groups will be deleted once reclassification is completed.
- When multiple symbols are included in the “Transferred to” column, avoid using ranges of symbols in order to be as precise as possible.
- For administrative transfer of documents, the following text should be used: “<administrative transfer to XX>”, “<administrative transfer to XX and YY simultaneously>”, or “<administrative transfer to XX, YY, ...and ZZ simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be “additional information”.
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations “ADD” or “INV”: <administrative transfer to XX ADD>, <administrative transfer to XX INV>, or <administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the “D” entries of 2000-series or Y-series groups may not require a destination (“Transferred to”) symbol, however it is required to specify “<no transfer>” in the “Transferred to” column for such cases.
- For finalization 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 Note(s)

SUBCLASS G05D - SYSTEMS FOR CONTROLLING OR REGULATING NON-ELECTRIC VARIABLES

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
N	G05D7/00		1. In groups G05D 7/0629 - G05D 7/0694, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.
M	G05D23/00	Within groups G05D 23/01 - G05D 23/32, an invention is classified in the last appropriate place in the absence of an indication of the contrary	1. In groups G05D 23/01 - G05D 23/32, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.

*N = new note, M = modified note, D = deleted note

NOTE: The "Location" column only requires the symbol PRIOR to the location of the note. No further directions such as "before" or "after" are required.

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DEFINITIONS (i.e. new)

Insert: The following new Definitions.

G05D 3/12

References

Informative references

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

Arrangements for regulating or controlling electric motors, appropriate for both AC and DC motors	H02P 29/00
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G05D 13/30

References

Informative references

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

Transducers converting variations of physical quantities into fluid-pressure variations	F15B 5/00
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G05D 13/34

References

Informative references

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

Fluid-pressure converters	F15B 3/00
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G05D 16/02

References

Informative references

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

Vibration-dampers	F16F 7/00
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2. A. DEFINITIONS (modified)

G05D

References

Delete: The entire Limiting references section.

Application-oriented references

Replace: The existing Application-oriented references table with the following revised table.

Control or measuring arrangements specially adapted for combines	A01D 41/127
Control or regulation of milking machines	A01J 5/007
Controlling or regulating processes or operations for continuous casting of metals	B22D 11/16
Automatic control of welding parameters	B23K 9/095
Control systems or devices for copying directly from a pattern or a master model	B23Q 35/00
Grinding controlled by patterns, drawings, magnetic tape or the like	B24B 17/00
Control means for lapping machines or devices	B24B 37/005
Measuring or gauging equipment for controlling the feed movement of the grinding tool or work	B24B 49/00
Controlling the flowability, constitution, or other physical characteristics of abrasive blasts	B24C 7/00
Flow- or pressure-control devices or systems for dispensing beverages on draught	B67D 1/12
Control devices specially adapted for fluidised bed combustion apparatus	F23C 10/28
Humidity or temperature control in electrographic, electrophotographic or magnetographic processes	G03G 21/20
Arrangements for controlling dynamo-electric motors or generators	H02P 5/00 - H02P 9/00

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Insert: The following new Informative references section.

Informative references

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

Valves per se	F16K
Measuring or testing	G01
Features of general applicability to regulating systems, e.g. anti-hunting arrangements	G05B
Systems for regulating electric or magnetic variables	G05F

G05D 3/00

References

Limiting references

Replace: The existing Limiting references table with the following revised table.

Control of position, course, altitude, or attitude of land, water, air or space vehicles, e.g. automatic pilot	G05D 1/00
Numerical control to execute positioning	G05B 19/18

Application-oriented references

Replace: The existing Application-oriented references table with the following revised table.

Controlling mechanisms of shoe machines	A43D 119/00
Control devices specially adapted for positioning tool carriers in forging or pressing	B21K 31/00
Pattern-controlled boring or drilling tools	B23B 39/26
Planing or slotting machines controlled by copying device	B23D 1/30, B23D 3/06, B23D 5/04
Controlling electrode to workpiece spacing in electric discharge and electrochemical machining	B23H 7/18

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Positioning the workpiece in working by laser, e.g. welding or cutting	B23K 26/02
Positioning the workpiece in soldering, welding or cutting by applying heat locally, not otherwise provided for	B23K 37/04
Positioning the molten metal in soldering or welding, not otherwise provided for	B23K 37/06
Adjusting or stopping spindles in machine tools	B23Q 5/20
Automatic control of position of tool or work; Precise positioning of tool or work into particular locations, not otherwise provided for	B23Q 15/00, B23Q 16/00
Tools controlled by pattern or master model	B23Q 35/00
Equipment for exact control of the starting position in grinding	B24B 47/22
Control arrangements for presses	B30B 15/14, B30B 15/16
Attitude or position control of chassis of tracked vehicles	B62D 55/116
Registering, tensioning, smoothing or guiding webs longitudinally by controlling or regulating web-advancing mechanisms	B65H 23/18
Control of dipper or bucket positions in dredgers	E02F 3/43
Fluid-pressure servomotors with follow-up action, i.e. in which the position of the actuated member conforms with that of the controlling member	F15B 9/00
Tracking of solar heat collectors	F24S 50/20
Positioning of originals, masks, frames, photographic sheets or textured or patterned surfaces in photomechanical production of patterned or textured surfaces	G03F 9/00
Controlling the position of the rotating heads in information storage systems	G11B 5/588
Means for moving control elements in nuclear reactors to desired positions	G21C 7/12

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Insert: The following new Informative references section.

Informative references

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

Control of linear or angular speed or of acceleration	G05D 13/00
Programme-controlled manipulators	B25J 9/00

G05D 5/00

References

Application-oriented references

Replace: The existing Application-oriented references table with the following revised table.

Control devices for tobacco cutting	A24B 7/14
Control of the thickness of coating of fluent material on a surface	B05C 11/02
Control of the thickness, width, diameter or other transverse dimensions of the products of metal-rolling mills	B21B 37/16
Regulating dimensions of molten glass ribbon	C03B 18/04
Regulating the thickness of layers in paper making	D21F 7/06

G05D 7/00

References

Limiting references

Replace: The existing Limiting references table with the following revised table.

Level control	G05D 9/00
Control of flow ratio	G05D 11/00

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Application-oriented referencesReplace: The Application-oriented references table with the following revised table.

Controlling the air quantity in hair drying helmets	A45D 20/26
Controlling flow of media to the human body	A61M 5/168
Controlling flow of gases or vapour in electrostatic separators	B03C 3/36
Control of fluent material in coating devices	B05C 11/10
Flow-control devices in apparatus or devices for dispensing beverages on draught	B67D 1/12
Automatic means for reducing or intermittently interrupting flow for transferring liquids from bulk storage containers or reservoirs into vehicles or into portable containers	B67D 7/28
Controlling gas flow through gas purifiers	C10K 1/28
Controlling flow of drilling fluid for flushing boreholes	E21B 21/08
Controlling the flow of the obtained fluid to or in wells	E21B 43/12
Controlling by varying flow non-positive-displacement machines or engines	F01D 17/00
Controlling lubrication pressure or quantity	F01M 1/16
Control of coolant flow for cooling machines or engines in general, or for internal-combustion engines	F01P 7/00
Control of gas-turbine working fluid flow	F02C 9/16, F02C 9/50
Throttle passages in pipes	F16L 55/027
Controlling air flow rate in air treatment arrangements	F24F 11/74
Controlling of air or gas flow in dryers	F26B 21/12
Controlling the rate of feed or discharge in continuous flow weighing apparatus	G01G 11/08
Control of nuclear power plant by varying flow of coolant	G21D 3/14

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Delete: The entire Informative references section.

G05D 9/00

References

Application-oriented references

Replace: The Application-oriented references table.

Controlling the liquid level in sedimentation arrangements	B01D 21/34
Ink level control devices	B41L 27/04
Controlling water level for boilers	F22D 5/00
Controlling level of liquid in liquid pool electrodes in electric discharge tubes or lamps	H01J 1/10, H01J 13/14

G05D 11/00

Definition statement

Insert: New text beneath the existing text beginning with “Further details of subgroups: ...” so that the Definition statement reads in full as follows.

Control of the relative ratio of flow rate or of volume of two or more fluent materials by action on throttling means and/or flow sources.

Further details of subgroups:

G05D 11/005

This subgroup also covers systems using interconnected pistons.

G05D 11/006

This subgroup covers systems comprising venturi aspirators.

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G05D 11/008

This subgroup covers systems where the motor of the pump acting on the feeding of a fluid is operated by another fluid.

G05D 11/03

Subgroups G05D 11/001 - G05D 11/008 are used in preference to G05D 11/03, also for flow ratio control systems without auxiliary power.

G05D 11/16

Systems aiming at regulating a temperature by mixing hot and cold water are only classified in G05D 23/13 and subgroups.

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Control of chemical or physico-chemical variables, e.g. pH-value	G05D 21/00
Control of humidity	G05D 22/00
Control of temperature by varying the mixing ratio of two fluids having different temperatures	G05D 23/13
Control of viscosity	G05D 24/00

Application-oriented references

Replace: The existing Application-oriented references table with the following updated table.

Density control in sedimentation arrangements	B01D 21/32
Forming predetermined ratios of substances to be mixed	B01F 35/80
Controlling the flowability of abrasive blasts	B24C 7/00

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Controlling the operation of apparatus for producing mixtures of clays or cements	B28C 7/00
Control devices for bulk material conveyors	B65G 53/66
Controlling the flow ratio in jet-propulsion plants	F02K 3/075

Delete: All the text that comes after the Application-oriented references table beginning with "Further details of subgroups:".

G05D 13/00

References

Delete: The entire Limiting references section.

Application-oriented references

Replace: The existing Application-oriented references table with the following revised table.

Controlling drum speed in metal drawing	B21C 1/12
Control of cutting velocity of tool or work	B23Q 15/00
Controlling ram speed in presses	B30B 15/20
Vehicle fittings, acting on a single sub-unit only, for automatically controlling vehicle speed	B60K 31/00
Devices for controlling the propulsion of electrically-propelled vehicles	B60L 15/00
Road vehicle cruise control	B60W 30/00
Control of cruising speed of aircraft	B64D 31/08
Control of feed rate in manufacture of artificial filaments, threads, fibres, bristles or ribbons	D01D 1/09
Speed control arrangements in carding machines	D01G 15/36
Automatically controlled speed driving mechanism in warping, beaming or leasing machines	D02H 13/14
Cyclically varying speed of looms	D03D 51/16

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Control of speed of fluid carrier in chemical analysis	G01N 30/32
Controlling the speed of record carriers of filamentary or web form in information storage systems	G11B 15/46
Controlling the speed of record carriers not specifically of filamentary or web form in information storage systems	G11B 19/28

G05D 15/00

References

Application-oriented references

Replace: The existing Application-oriented references table with the following revised table.

Control devices for adjusting the force in portable percussive tools	B25D 9/26
Controlling ram pressure in presses	B30B 15/22
Controlling tension in filamentary material	B65H 59/00
Controlling tension in webs, tapes, or filamentary material	B65H 23/00, B65H 59/00
Control devices for rope, cable or chain tension in load moving winding or unwinding mechanisms	B66D 1/50
Control of the tension in looms	D03D 49/04
Automatically-controlled tensioning devices in sewing machines	D05B 47/04
Means for regulating the pressure in paper-making machines	D21F 3/06
Controlling the tension during drying fabrics	F26B 13/12
Controlling the pressure of air or gases for drying solid materials or objects	F26B 21/10
Control of record carrier tension in information storage arrangements	G11B 15/43

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G05D 16/00**References****Application-oriented references**

Replace: The existing Application-oriented references table with the following revised table.

Devices for controlling tyre pressure	B60C 23/00
Control of air pressure within diving suit	B63C 11/08
Automatic control of aircraft air-pressure	B64D 13/04
Control devices, e.g. for controlling gas pressure, for preventing jamming of material in bulk material conveyors	B65G 53/66
Control of pressure in the treatment of filament-forming material	D01D 1/09
Controlling pressure of drilling fluid for flushing boreholes	E21B 21/08
Controlling lubricant pressure	F01M 1/16
Control of pressure of fluid carrier in chemical analysis	G01N 30/32
Means for obtaining or maintaining pressure in electric discharge tubes or lamps	H01J 7/14
Means for obtaining or maintaining pressure in electric incandescent lamps	H01K 1/52

Informative references

Delete: The following two rows from the Informative references table.

Control of pressure in electric discharge tubes or lamps	H01J 7/14
Control of pressure in electric incandescent lamps	H01K 1/52

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G05D 17/00**References**Delete: The entire Limiting references section.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:

Torque limiters in tools	B25B 23/14
Propulsion units in vehicles	B60K
Control of combustion engines	F02D
Control of electric motors	H02P

G05D 19/00**References**Delete: The entire Limiting references section.**Application-oriented references**Replace: The existing Application-oriented references table with the following revised table.

Control devices for adjusting the frequency of portable percussion tools	B25D 9/26
Controlling means for the frequency of the jiggling movement of jiggling conveyors	B65G 27/32
Suppression of vibrations in systems	F16F 15/002
Musical instruments; acoustics	G10
Loudspeakers or like acoustic electromechanical transducers	H04R

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G05D 21/00**References**Delete: The entire Limiting references section.**Application-oriented references**Replace: The text in all three rows of the Application-oriented references table so that the table reads as follows.

Controlling density in sedimentation arrangements	B01D 21/32
Controlling separation of gases or vapours by gas-analysis apparatus	B01D 53/30
Control of fluid composition, e.g. gradient, of fluid carrier in chemical analysis	G01N 30/34

Informative referencesInsert: The following three new rows into the Informative references table.

Ratio control	G05D 11/00
Humidity control	G05D 22/00
Control of viscosity	G05D 24/00

G05D 22/00**References****Application-oriented references**Replace: The text in all six rows of the Application-oriented references table so that the table reads as follows.

Control of watering for watering gardens, fields, sports grounds or the like	A01G 25/16
Controlling humidity in poultry incubators	A01K 41/04
Control of the moisture content of tobacco products	A24B 9/00
Moistening in air treating devices of vehicles	B60H 3/02

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Control arrangements for air conditioning	F24F 11/00
Controlling humidity of the gas supply in arrangements for supplying or controlling air or gases for drying solid materials or objects	F26B 21/08

G05D 23/00**References**

Delete: The entire Limiting references section.

Application-oriented references

Replace: The existing Application-oriented references table with the following revised table.

Means for regulating the temperature of bakers' ovens	A21B 1/40
Devices for controlling the temperature of hair curlers	A45D 6/20
Control devices for metal extruding, e.g. for regulating temperature of metal	B21C 31/00
Temperature control means for lapping machines or devices	B24B 37/015
Devices for controlling tyre temperature	B60C 23/00
Arrangements for controlling temperature of cosmonautic vehicles	B64G 1/50
Controlling the temperature of the float baths or of the atmosphere above the float baths in glass making	C03B 18/18, C03B 18/22
Control of temperature in the treatment of filament-forming or like material	D01D 1/09
Devices for controlling temperature of parts of knitting machines	D04B 35/30
Temperature control of hand irons	D06F 75/26
Regulating temperature of the dryer section in paper-making machines	D21F 5/06
Controlling temperature of lubricants	F01M 5/00

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Controlling the supplying oil or unspecified lubricant from a reservoir by means of temperature	F16N 7/08
Controlling superheat temperature for superheating of steam	F22G 5/00
Control of central heating systems	F24D 19/10
Control of temperature in arrangements for supplying or controlling air or gases for drying solid materials or objects	F26B 21/10
Control of temperature of fluid carrier in chemical analysis	G01N 30/30
Temperature of electric storage cells	H01M 10/60
Control of temperature in dielectric, induction or microwave heating	H05B 6/06, H05B 6/50, H05B 6/68
Controlling the temperature of anode of X-ray tubes	H05G 1/36

Informative references

Replace: The existing Informative references table with the following revised table.

Control of air-humidification systems	F24F 11/0008
Thermal management of data-processing equipment	G06F 1/206
Automatic switching arrangements for electric heating apparatus	H05B 1/02
Modifications of constructional details to facilitate cooling, ventilating, or heating of electrical apparatus	H05K 7/20

G05D 25/00

References

Limiting references

Delete: The following three rows from the Limiting references table.

Vehicle lighting	B60Q
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Operating screening devices	E06B 9/68
Mechanically operable parts of lighting devices for the control of light	F21V

Application-oriented references

Replace: The existing Application-oriented references table with the following revised table.

Control devices associated with light sources in photographic composing machines	B41B 21/08
Controlling the intensity, frequency, phase, polarisation or direction of the emitted radiation of lasers	H01S 3/10
Circuit arrangements for operating electroluminescent light sources, incandescent light sources, discharge lamps, light emitting diodes, light sources using a charge of combustible material or light sources in general	H05B 39/00 - H05B 47/00

Insert: The following new Informative references section.

Informative references

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

Vehicle lighting	B60Q
Operating screening devices	E06B 9/68
Mechanically operable parts of lighting devices for the control of light	F21V