

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 582

DATE: JANUARY 1, 2019

PROJECT RP0541

**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>		
Warnings Modified:	G02B	subclass
Notes Modified:	G02B	subclass
	G05B	subclass
	G05D	subclass
	G05G	subclass
<b>DEFINITIONS:</b>		
Definitions Modified:	G02B	subclass

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

**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

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

**SUBCLASS G02B – OPTICAL ELEMENTS, SYSTEMS, OR APPARATUS**

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
M	G02B	The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups: G02B11/00 - G02B11/34 covered by G02B9/00 and subgroups and G02B13/00 and subgroups	<p>1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups: G02B11/00 – G02B11/34 covered by G02B9/00 and G02B13/00.</p> <p>2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.</p>

\*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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C. New, Modified or Deleted Note(s)

**SUBCLASS G02B – OPTICAL ELEMENTS, SYSTEMS, OR APPARATUS**

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	G02B	In this subclass, the following terms are used with the meanings indicated : "simple lens or prism" means a single lens or prism; "compound lens or prism" means an optical member, the constituents of which either are close together without air-space or (except in group ) are "in broken contact", i.e. with the air-space between the constituents having no essential optical influence; "objective" means a lens or an optical system designed to produce a real image of a real object; "eyepiece" means a lens or an optical system designed to produce a virtual image for viewing by the eye or by another optical system; "front" or "rear" is determined by looking from the more distant conjugate.	Attention is drawn to the Notes following the titles of class B81 and subclass B81B relating to "microstructural devices" and "microstructural systems".

**SUBCLASS G05B – CONTROL OR REGULATING SYSTEMS IN GENERAL; FUNCTIONAL ELEMENTS OF SUCH SYSTEMS; MONITORING OR TESTING ARRANGEMENTS FOR SUCH SYSTEMS OR ELEMENTS**

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	G05B	1. This subclass covers features of control systems or elements for regulating specific variables, which are clearly more generally applicable. 2. This subclass does not cover applications of such systems or elements, which are covered by subclass G05D or G05F. 3. In this subclass, the following terms or expressions are used with the meanings indicated : "automatic controller" means a system, circuit, or device in which a signal from the detecting element is compared with a signal representing the desired value and which operates in such a way as to reduce the deviation. The automatic controller generally does not include the sensitive element, i.e. that element which measures the value of	1. This subclass <u>covers</u> features of control systems or elements for regulating specific variables, which are clearly more generally applicable. 2. This subclass <u>does not cover</u> : a. systems for controlling or regulating non-electric variables in general, which are covered by subclass G05D; b. systems for regulating electric or magnetic variables in general, which are covered by subclass G05F; c. systems specially adapted for the control of particular machines or apparatus provided for in a single other subclass, which are classified in the relevant subclass for such machines or apparatus, provided that there is specific provision for control or regulation relevant to the special adaptation. Otherwise, classification is

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<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
		<p>the condition to be corrected, or the correcting element, i.e. that element which adjusts the condition to be corrected;</p> <p>"electric" includes "electromechanical", "electrohydraulic" or "electropneumatic".</p> <p>4. In this subclass, details or specific control systems are classified in the group relevant to that system, if not otherwise provided for.</p>	<p>made in the most appropriate place in this subclass.</p> <p>3. In this subclass, the following terms or expressions are used with the meanings indicated:</p> <ul style="list-style-type: none"> <li>•"automatic controller" means a system, circuit, or device in which a signal from the detecting element is compared with a signal representing the desired value and which operates in such a way as to reduce the deviation. The automatic controller generally does not include the sensitive element, i.e. that element which measures the value of the condition to be corrected, or the correcting element, i.e. that element which adjusts the condition to be corrected;</li> <li>•"electric" includes "electromechanical", "electrohydraulic" or "electropneumatic".</li> </ul> <p>4. In this subclass, details or specific control systems are classified in the group relevant to that system, if not otherwise provided for.</p>

**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>
M	G05D	<p>1. This subclass <u>does not cover</u> features of general applicability to regulating systems, e.g. anti-hunting arrangements, which are covered by subclass G05B.</p> <p>2. In this subclass, the following term is used with the meaning indicated: "systems" includes self-contained devices such as speed governors, pressure regulators.</p> <p>3. Control systems specially adapted for particular apparatus, machines or processes are classified in the subclasses for the apparatus, machines or processes, provided that there is specific provision for control or regulation relevant to the special adaptation, either at a detailed level, (e.g. A21B1/40 : "for regulating temperature in bakers' ovens") or at a general level, (e.g. B23K9/095 : "for automatic control of welding parameters in arc welding").</p>	<p>1. This subclass <u>does not cover</u> features of general applicability to regulating systems, e.g. anti-hunting arrangements, which are covered by subclass G05B.</p> <p>2. In this subclass, the following term is used with the meaning indicated: •"systems" includes self-contained devices such as speed governors, pressure regulators.</p> <p>3. Control systems specially adapted for particular apparatus, machines or processes are classified in the subclasses for the apparatus, machines or processes, provided that there is specific provision for control or regulation relevant to the special adaptation, either at a detailed level, e.g. A21B 1/40: "for regulating temperature in bakers' ovens", or at a general level, e.g. B23K 9/095: "for automatic control of welding parameters in arc welding". Otherwise, classification</p>

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<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
		<p>Otherwise, classification is made in the most appropriate place in this subclass. The following are lists of places where there is specific provision of the kind referred to above. Where such provision is at a detailed level, the places have been grouped according to the main groups of this subclass. Where the provision is at a general level (e.g. of a kind appropriate to more than one of the main groups specified in the lists, or to main groups G05D27/00 or G05D29/00 ), the places are listed under the title "General References".</p> <p><u>Places related to G05D1/00</u></p> <p>A01B69/00 Agricultural machines or implements</p> <p>A63H17/36 Toy vehicles</p> <p>B60V1/11 Air-cushion vehicles</p> <p>B62D1/00 Steering controls of motor vehicles or trailers,i.e. means for initiating a change of direction</p> <p>B62D6/00 Arrangements for automatically controlling thesteering depending on driving conditions</p> <p>B62D55/116 Chassis of endless-tracked vehicles</p> <p>B63H25/00 Marine steering; control of waterborne vessels</p> <p>B64C13/00 - B64C15/00 Controlling aircraft</p> <p>B64D25/10 Controlling attitude or direction of aircraftjector seats</p> <p>B64G1/24 Cosmonautic vehicles</p> <p>F41G7/00 Self-propelled missiles</p> <p>F42B15/01 Guided missiles</p> <p>F42B19/01 Marine torpedoes</p> <p><u>Places related to G05D3/00</u></p> <p>A43D119/00 Footwear manufacture</p> <p>B21K31/00 Tool carriers in forging or pressing</p> <p>B23B39/26 Pattern-controlled boring or drilling tools</p>	<p>is made in the most appropriate place in this subclass.</p>

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<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
		B23D1/30, Planing or slotting B23D3/06, machines controlled by B23D5/04 copying device  B23H7/18 Electrode to workpiece spacing in electric discharge and electrochemical machining  B23K26/02 Workpiece in laser welding or cutting  B23K37/04 Workpiece in welding  B23K37/06 Molten metal in welding  B23Q5/20 Spindles in machine tools  B23Q15/00, Tool or work position in B23Q16/00 machine tools  B23Q35/00 Tools controlled by pattern or master model  B24B17/00 Grinding controlled by patterns, drawings,magnetic tape or the like  B24B47/22 Starting position in grinding  B30B15/24 Actuating members in presses  B62D55/116 Chassis of tracked vehicles  B65H23/18 Web-advancing mechanisms  E02F3/43 Dippers or buckets in dredgers  F15B9/00 Fluid-pressure servomotors with follow-up action  F24S50/20 Tracking of solar haet collectors  G03F9/00 Photomechanical production of patterned or textured surfaces  G11B5/588 Rotating heads in information storage systems  G21C7/12 Movement of control elements in nuclear reactors  <u>Places related to G05D5/00</u> A24B7/14 Tobacco cutting	

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<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
		<p>B05C11/02 Thickness of coating of fluent material on surface</p> <p>B21B37/16 Thickness, width, diameter or other transverse dimensions of the products of metal-rolling mills</p> <p>C03B18/04 Dimension of glass ribbon</p> <p>D21F7/06 Thickness of layer in paper making</p> <p><u>Places related to G05D7/00</u></p> <p>A45D20/26 Air in hair drying helmets</p> <p>A61M5/168 Flow of media to the human body</p> <p>B03C3/36 Gases or vapour in electrostatic separators</p> <p>B05C11/10 Fluent material in coating devices</p> <p>B67D1/12 Dispensing beverages on draught</p> <p>B67D7/28 Transferring liquids</p> <p>C10K1/28 Gas purifiers</p> <p>E21B21/08 Flushing boreholes</p> <p>E21B43/12 Obtaining liquids from wells</p> <p>F01D17/00 Flow in non-positive-displacement machines or systems</p> <p>F01M1/16 Lubrication arrangements</p> <p>F01P7/00 Coolant flow in cooling devices</p> <p>F02C9/16, F02C9/50 Gas-turbine working fluid</p> <p>F16L55/027 Throttle passages in pipes</p> <p>F24F11/00 Air-flow or supply of heating or cooling fluids in air treatment arrangements</p> <p>F26B21/12 Air or gas flow in dryers</p> <p>G01G11/08 Continuous flow weighing apparatus</p> <p>G21D3/14 Coolant in nuclear power plant</p> <p><u>Places related to G05D9/00</u></p>	

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<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
		B01D21/34 Liquid level in sedimentation arrangements B41L27/04 Ink level in printing, manifolding or duplicating arrangements F22D5/00 Feed water for boilers H01J1/10, H01J13/14 Liquid pool electrodes in electric discharge tubes or lamps  <u>Places related to G05D11/00</u> B01D21/32 Density in sedimentation arrangements B01F15/04 Mixers B24C7/00 Abrasive blasts B28C7/00 Mixtures of clays or cements B65G53/66 Bulk material conveyors F02K3/075 Flow ratio in jet-propulsion plants  <u>Places related to G05D13/00</u> B21C1/12 Drum speed in metal drawing B23Q15/00 Cutting velocity of tool or work B30B15/20 Ram speed in presses B60K31/00 Setting or limiting speed of vehicles B60L15/00 Electrically-propelled vehicles B64D31/08 Cruising speed of aircraft D01D1/09 Feed rate in manufacture of artificial filaments, threads, fibres, bristles or ribbons D01G15/36 Carding machines D02H13/14 Warping, beaming or leasing machines D03D51/16 Cyclically varying speed of looms G01N30/32 Speed of fluid carrier in chemical analysis G11B15/46 Filamentary or web record carriers or heads for such	

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<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
		<p>carriers in information storagesystems</p> <p>Non-filamentary, non-web record carriers, orheads for such carriers in information storagesystems</p> <p>G11B19/28</p> <p><u>Places related to G05D15/00</u></p> <p>B25D9/26 Portable percussive tools</p> <p>B30B15/22 Ram pressure in presses</p> <p>B65H59/00 Tension in filamentary material</p> <p>B65H23/00, B65H59/00 Tension in webs, tapes, filamentary material</p> <p>B66D1/50 Rope, cable or chain tension</p> <p>D03D49/04 Tension in looms</p> <p>D05B47/04 Tension in sewing machines</p> <p>D21F3/06 Pressure in paper-making machines</p> <p>F26B13/12 Drying fabrics</p> <p>F26B21/10 Pressure in dryers</p> <p>G11B15/43 Record carrier tension in informationstorage arrangements</p> <p><u>Places related to G05D16/00</u></p> <p>B60C23/00 Tyre pressure</p> <p>B63C11/08 Air within diving suit</p> <p>B64D13/00 Aircraft air-pressure</p> <p>B65G53/66 Bulk material conveyors</p> <p>D01D1/09 Manufacture of artificial filaments, threads, fibres, bristles or ribbons</p> <p>E21B21/08 Flushing boreholes</p> <p>F01M1/16 Lubrication arrangements</p> <p>G01N30/32 Pressure of fluid carrier in chemical analysis</p> <p>H01J7/14 Pressure in electric discharge tubes or lamps</p> <p>H01K1/52 Pressure in electric incandescent lamps</p> <p><u>Places related to G05D19/00</u></p>	

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<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
		B25D9/26 Portable percussion tools B65G27/32 Jigging conveyors  <u>Places related to G05D21/00</u> B01D21/32 Density in sedimentation arrangements B01D53/30 Treating gases or vapours G01N30/34 Composition of fluid carrier in chemical analysis  <u>Places related to G05D22/00</u> A01G25/16 Watering gardens, fields, sports grounds or the like A01K41/04 Poultry incubators A24B9/00 Tobacco products F24F11/00 Air conditioning F26B21/08 Dryers  <u>Places related to G05D23/00</u> A21B1/40 Bakers' ovens A45D6/20 Hair curlers B21C31/00 Metal extruding B60C23/00 Tyre temperature B64G1/50 Cosmonautic vehicles C03B18/18, C03B18/22 Float baths in glass making  D01D1/09 Manufacture of artificial filaments, threads, fibres, bristles or ribbons D04B35/30 Knitting machines D06F75/26 Hand irons D21F5/06 Paper-making machines F01M5/00 Lubricant in lubrication arrangements  F16N7/08 Arrangements for supplying oil or unspecified lubricant from a reservoir F22G5/00 Steam superheat F26B21/10 Dryers G01N30/30 Temperature of fluid carrier in chemical analysis H01M10/60 Electric storage cells	

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<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
		<p>H05B6/06, Dielectric, induction or H05B6/50, microwave heating H05B6/68 H05G1/36 Anode of X-ray tube</p> <p><u>Places related to G05D25/00</u></p> <p>B41B21/08 Photographic composing machines</p> <p>H01S3/10, H05B33/08, Lasers and other light H05B35/00 to sources H05B43/00</p> <p><u>General references</u></p> <p>A01J5/007 Milking machines B23K9/095 Welding parameters B23Q35/00 Copying B24B17/00, B24B49/00 Grinding or polishing B24C7/00 Abrasive blasts B67D1/12 Dispensing beverages on draught</p> <p>G03G21/20 Electrographic, electrophotographic ormagnetographic processes</p> <p>H02P5/00 - Dynamo-electric motors or H02P9/00 generators</p>	

**SUBCLASS G05G – CONTROL DEVICES OR SYSTEMS INSOFAR AS CHARACTERISED BY MECHANICAL FEATURES ONLY**

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	G05G	<p>1. This subclass <u>covers</u>: members of general applicability for mechanical control; mechanical systems for moving members to one or more definite settings. 2. Systems peculiar to the control of particular machines or apparatus provided for in a single other class are classified in the relevant class for such machines or apparatus, for example:</p>	<p>1. This subclass <u>covers</u> : •members of general applicability for mechanical control; •mechanical systems for moving members to one or more definite settings. 2. Systems peculiar to the control of particular machines or apparatus provided for in a single other class are classified in the relevant class for such machines or apparatus.</p>

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<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
		A61G13/02 Controls for adjusting operating tables	
		A61G15/02 Controls for adjusting operating chairs	
		A63F13/20, A63F13/98 Accessories for games using an electronically generated display	
		B25J Manipulators, e.g. controls therefor	
		B60K26/00 Arrangement or mounting of propulsion-unit control devices in vehicles	
		B60T7/00 Vehicle brake-action initiating means	
		B62D33/073 Adaptations of control devices for movable vehicle cabs	
		B62K21/00 Cycle-steering devices	
		B62K23/00 Rider-operated controls specially adapted for cycles	
		B62L3/00 Brake-actuating mechanisms specially adapted for cycles	
		B63H25/02 Marine steering initiating means	
		B66B1/00 Controls for elevators	
		B66C13/18 Control systems or devices for cranes	
		B66C13/56 Arrangements of handles or pedals for crane operation	
		E02F9/20 Control devices for dredging or soil shifting machines	
		F16C3/28 Adjustable cranks or eccentrics	
		F16D43/00 Automatic clutches	
		F16K31/00, F16K33/00 Controls for valves	
		F16P3/00 Safety devices acting in conjunction with the control or operation of a machine	

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<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
		F16P7/02 Stopping machines on occurrence of dangerous conditions therein	
		G02B21/32 Micromanipulators structurally combined with microscopes	
		G04B1/00 - Driving mechanisms in clocks or watches	
		G04B18/00	
		G06C Digital computers in which all the computation is effected mechanically	
		G06F3/02 Manual computer input arrangements	
		G06K11/00 Converting a pattern of mechanical parameters into electric signals	
		G21C7/08 Displacement of solid control elements in nuclear reactors	
		H01H Mechanisms for operating switch contacts	
		H03J1/00 Mechanical control of resonant circuits.	

\*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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2. B. DEFINITIONS QUICK FIX

<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
G02B	Glossary of Terms		ADD:  in broken contact      such that the air-space between the constituents of an optical member has no essential optical influence
G02B	Glossary of Terms	Simple lens or prism      A single lens or prism	Replace with:  simple lens or prism;      Single lens or prism simple lens, simple; lenses, simple prism; simple prisms, simple; Single lens; prism
G02B	Glossary of Terms	Compound lens or prism  An optical member, the constituents of which either are close together without air-space are "in broken contact", i.e. with the air-space between the constituents having no essential optical influence;	Replace with:  compound lens or prism; compound lens; compound lenses; compound prism; compound prisms  Optical member the constituents of which are either close together without air-space or in broken contact; see also the Note after group G02B.

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G02B	Glossary of Terms	Objective	A lens or an optical system designed to produce a real image of a real object;	Replace with:  objective; objectives  Lens or optical system designed to produce a real image of a real object.
G02B	Glossary of Terms	Eyepiece	A lens or an optical system designed to produce a virtual image for viewing by the eye or by another optical system	Replace with:  Eyepiece; Eyepieces  Lens or optical system designed to produce a virtual image for viewing by the eye or by another optical system
G02B	Glossary of Terms	Front, rear	Determined by looking from the more distant conjugate.	Replace with:  Front, rear  is determined by looking from the more distant conjugate

NOTES:

- The table above is used for corrections or modifications to existing definitions, e.g. delete an entire definition or part thereof; propose new wording or modify wording of a section, change the symbol the definition is associated with, change or delete a reference symbol, etc.
- Do not delete (F) symbol definitions.