

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1689

DATE: JANUARY 1, 2025

PROJECT MP12467

**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>		
Titles Changed:	A61B	34/37
	B25J	1/00
	B25J	3/00, 3/02
	B25J	9/0081
	G04C	3/025, 3/0273, 3/14
	G04C	9/00
	G04C	13/00, 13/021, 13/027, 13/028, 13/03, 13/04, 13/0409, 13/0418, 13/0427, 13/0436, 13/0454, 13/08, 13/105
	G05B	19/427
	H03K	3/02332, 3/0372, 3/289, 3/3562
	H04W	52/0212
	H04W	84/20
Guidance Headings Modified:	G04C	11/00
<b>DEFINITIONS:</b>		
Definitions New:	G04C	3/14
Definitions Modified:	A61B	34/37
	B25J	Subclass
	B25J	1/00, 1/08
	B25J	3/00, 3/02, 3/04
	B25J	9/0081, 9/1689
	G04C	9/00
	G04C	13/00, 13/04, 13/08
	H04W	84/18, 84/20
	H04W	92/04

**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)

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- 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 A61B - DIAGNOSIS; SURGERY; IDENTIFICATION (analysing biological material G01N, e.g. G01N 33/48; obtaining records using waves other than optical waves, in general G03B 42/00)**

<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	A61B 34/37	2	Leader-follower robots (A61B 34/35 takes precedence)	

**SUBCLASS B25J - MANIPULATORS; CHAMBERS PROVIDED WITH MANIPULATION DEVICES**

({manipulators specially adapted for use in surgery A61B 34/70; manipulators used in cleaning hollow articles B08B 9/04} ; manipulators associated with rolling mills B21B 39/20; manipulators associated with forging machines B21J 13/10; {manipulators associated with picking-up and placing mechanisms B23P 19/007} ; means for holding wheels or parts thereof B60B 30/00; {vehicles with ground-engaging propulsion means, e.g. walking members B62D 57/02, B62D 57/032; devices for picking-up and depositing articles or materials between conveyors B65G 47/90, B65G 47/91; manipulators with gripping or holding means for transferring packages B65H 67/065}; cranes B66C; {manipulators used in the protection or supervision of pipe-line installations F17D 5/00; walking equipment adapted for nuclear steam-generators F22B 37/006}; manipulators specially adapted for, or associated with, nuclear reactors G21C; {apparatus used for handling wafers during manufacture or treatment of semiconductor H01L 21/68})

<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	B25J 1/00	0	Manipulators positioned in space by hand (of leader-follower type B25J 3/00; micromanipulators B25J 7/00)	
M	B25J 3/00	0	Manipulators of leader-follower type, i.e. both controlling unit and controlled unit perform corresponding spatial movements	
M	B25J 3/02	1	involving a parallelogram coupling of the leader and follower units (pantographic instruments B43L 13/00)	
M	B25J 9/0081	1	{with leader teach-in means}	

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**SUBCLASS G04C - ELECTROMECHANICAL CLOCKS OR WATCHES (mechanical parts of clocks or watches in general G04B; electronic time-pieces with no moving parts, electronic circuitry for producing timing pulses G04G)**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	G04C 3/025	2	{using more than one pendulum (synchronisation between primary and secondary pendulums G04C 13/028)}	
M	G04C 3/0273	3	{the pendulum controlling contacts, thereby electromagnetically driving the gear-train or several gear-trains (generating driving pulses in primary clocks G04C 13/0463)}	
M	G04C 3/14	1	incorporating a stepping motor (G04C 3/02 - G04C 3/12 take precedence {; generating commutating pulses in primary clocks G04C 13/0463})	
M	G04C 9/00	0	Electrically-actuated devices for setting the time-indicating means (of secondary clocks G04C 13/03; radio-controlled time-pieces G04R)	
M	G04C 13/00	0	Driving mechanisms for clocks by primary clocks	
M	G04C 13/021	2	{primary-secondary systems using transmission of singular pulses for driving directly secondary clocks step by step (G04C 13/03 takes precedence)}	
M	G04C 13/027	2	{primary-secondary systems using transmission of other driving signals, e.g. coded signals}	
M	G04C 13/028	2	{transmission systems for synchronisation of pendulum of secondary clocks by pendulums of primary clocks}	
M	G04C 13/03	2	Pulse transmission systems with a additional means for setting the time indication of secondary clocks {(G04C 13/028 takes precedence)}	
M	G04C 13/04	2	Primary clocks	
M	G04C 13/0409	3	{monitoring or controlling primary clock or system with more than one primary clock, e.g. for switching-over to standby motor or power system}	
M	G04C 13/0418	4	{by using devices similar to secondary clocks}	

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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> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	G04C 13/0427	4	{Systems in which secondary clocks function as primary clocks for other secondary clocks (synchronisation of independently-driven clocks G04C 11/00, setting G04C 9/00)}	
M	G04C 13/0436	3	{provided with supplementary means for setting or changing the time indication of the secondary clocks}	
M	G04C 13/0454	4	{for automatically setting of secondary clocks after correction or after setting of primary clock}	
M	G04C 13/08	1	Secondary clocks actuated intermittently	
M	G04C 13/105	3	{setting the time-indicating means (adjusting independently-driven clocks G04C 9/00, G04C 11/00; primary-secondary systems with setting means G04C 13/03)}	

**SUBCLASS G05B - CONTROL OR REGULATING SYSTEMS IN GENERAL; FUNCTIONAL ELEMENTS OF SUCH SYSTEMS; MONITORING OR TESTING ARRANGEMENTS FOR SUCH SYSTEMS OR ELEMENTS (systems for controlling or regulating non-electric variables G05D; systems for regulating electric or magnetic variables G05F; control devices or systems insofar as characterised by mechanical features only G05G)**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	G05B 19/427	3	Teaching successive positions by tracking the position of a joystick or handle to control the positioning servo of the tool head, leader-follower control (G05B 19/423 takes precedence)	

**SUBCLASS H03K - PULSE TECHNIQUE (measuring pulse characteristics G01R; modulating sinusoidal oscillations with pulses H03C; transmission of digital information H04L; discriminator circuits detecting phase difference between two signals by counting or integrating cycles of oscillation H03D 3/04; automatic control, starting, synchronisation or stabilisation of generators of electronic oscillations or pulses where the type of generator is irrelevant or unspecified H03L; coding, decoding or code conversion, in general H03M)**

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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> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	H03K 3/02332	4	{of the primary-secondary type}	
M	H03K 3/0372	4	{of the primary-secondary type}	
M	H03K 3/289	6	of the primary-secondary type	
M	H03K 3/3562	4	of the primary-secondary type	

**SUBCLASS H04W - WIRELESS COMMUNICATION NETWORKS (broadcast communication H04H; communication systems using wireless links for non-selective communication, e.g. wireless extensions H04M 1/72)**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	H04W 52/0212	3	{managed by the network, e.g. network or a ccess point is leader and terminal is follower}	
M	H04W 84/20	2	Leader-follower arrangements	

\*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.

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- 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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D. New, Modified or Deleted Guidance Heading(s)

**SUBCLASS G04C - ELECTROMECHANICAL CLOCKS OR WATCHES (mechanical parts of clocks or watches in general G04B; electronic time-pieces with no moving parts, electronic circuitry for producing timing pulses G04G)**

<u>Type*</u>	<u>Location</u>	<u>Old Guidance Heading</u>	<u>New/Modified Guidance Heading</u>
M	G04C 11/00- G04C 15/009	Electric clock installations; Master-and-slave clock systems; Synchronous-motor clocks	Electric clock installations; Primary and secondary clock systems; Synchronous-motor clocks

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

NOTES:

- The “Location” column requires the symbol AFTER the guidance heading location. No further directions such as “before” or “after” are required.
- In cases where there may be confusion as to whether a new group falls within the scope of a guidance heading, indicate the guidance heading and whether the group does or does not go with the guidance heading. This can be included in the “Location” column. For example, the guidance heading “Compounds containing carbon together with sulfur, selenium or tellurium with or without hydrogen, halogens, oxygen or nitrogen” encompasses groups C07C 301/00-395/00 only. If a new group C07C 398/00 is proposed and is included in the guidance heading scope, indicate this in the “Location” column as follows: 398/00 to be included under the guidance heading: “Compounds containing carbon together with sulfur, selenium or tellurium with or without hydrogen, halogens, oxygen or nitrogen.”



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## 2. A. DEFINITIONS (new)

### G04C 3/14

#### References

#### Limiting references

*This place does not cover:*

Electromechanical clocks or watches wherein movement is regulated by a pendulum	<a href="#">G04C 3/02</a>
Electromechanical clocks or watches wherein movement is regulated by a balance	<a href="#">G04C 3/04</a>
Electromechanical clocks or watches wherein movement is regulated by a mechanical oscillator other than a pendulum or balance, e.g. by a tuning fork	<a href="#">G04C 3/08</a>
Generating commutating pulses in primary clocks	<a href="#">G04C 13/0463</a>

#### Informative references

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

Circuit arrangements; Electric clock installations	<a href="#">G04C 13/02</a>
Secondary clocks actuated intermittently by electromechanical step advancing mechanisms	<a href="#">G04C 13/10</a>
Apparatus for producing preselected time intervals for use as timing standards	<a href="#">G04F 5/00</a>
Producing timing pulses	<a href="#">G04G 3/00</a>
Setting, i.e. correcting or changing, the time-indication	<a href="#">G04G 5/00</a>
Synchronisation	<a href="#">G04G 7/00</a>
Control circuits for stepping motors in general	<a href="#">H02P 8/00</a>

## 2. A. DEFINITIONS (modified)

### A61B 34/37

Insert: A period at the end of the Definition statement.

#### Definition statement

*This place covers:*

Robots with a separate console.

Insert: The following new Limiting references section.

#### References

#### Limiting references

*This place does not cover:*

Robots for telesurgery	<a href="#">A61B 34/35</a>
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### B25J 1/00

Insert: The following new Limiting references section.

#### References

#### Limiting references

*This place does not cover:*

Manipulators of leader-follower type	<a href="#">B25J 3/00</a>
Micromanipulators	<a href="#">B25J 7/00</a>

**B25J 3/02**

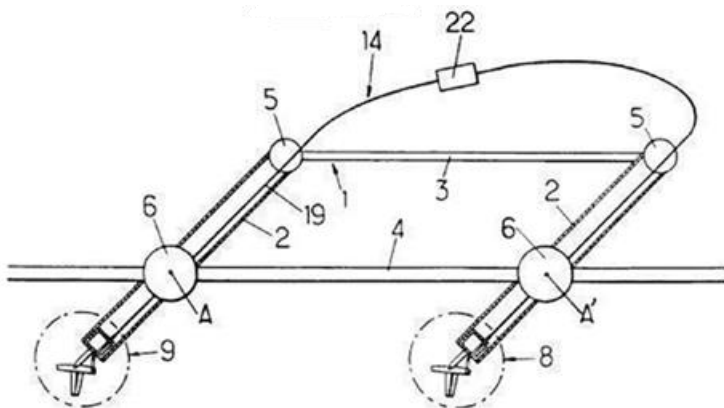
Replace: The existing Definition statement text and image with the following updated text and image.

**Definition statement**

*This place covers:*

Leader-follower manipulators having a mechanical connection between the leader unit and the follower unit (e.g. connection by shafts, rods, wires, etc).

Illustrative example of subject matter classified in this place:



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## References

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

### Limiting references

*This place does not cover:*

Pantographic instruments	<a href="#">B43L 13/00</a>
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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:*

Manual leader-follower manipulators mounted in a wall	<a href="#">B25J 1/08</a>
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## G04C 9/00

Delete: The term “and/” so that the updated Definition statement appears as follows.

### Definition statement

*This place covers:*

Documents dealing with setting the time (or the date) in an electromechanical timepiece or, by electromechanical means, in an electronic timepiece. With the exception of [G04C 9/02](#), the key element of [G04C 9/00](#) is a setting crown.

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## References

Insert: The following new Limiting references section.

### Limiting references

*This place does not cover:*

Pulse transmission systems with additional means for setting the time indication of secondary clocks	G04C 13/03
Radio-controlled timepieces	G04R

Replace: The existing Special rules text with the following updated text.

### Special rules of classification

G04C 9/02 contains many radio-controlled timepieces (which are nevertheless all double classified and shall be soon removed from here) and, in addition, it contains documents showing systems allowing to test or correct the running precision of a timepiece by establishing a wireless communication between the timepiece and an external control device. Typically, these control devices are available on timepiece manufacturing sites or in retailer shops, to perform calibration or re-calibration of some (otherwise inaccessible) of the timepiece elements.

Documents classified in the rest of G04C 9/00 should, as a general rule, contain details concerning the operations that a user needs to perform in order to set the time. On the contrary, if a document merely contains hardware details concerning the electromechanical setting element (the crown, most typically), then classification in G04C 3/001 should be considered. In the past, this has not always been a strict policy, therefore an overlap still exists and should always be considered.

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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
B25J	Definition statement	Master-slave manipulators B25J 3/00	<u>Replace</u> with:  Leader-follower manipulators B25J 3/00
B25J 1/08	Special rules	master-slave type	<u>Replace</u> with:  leader-follower type
B25J 3/00	Definition statement	master unit	<u>Replace both instances</u> with:  leader unit
B25J 3/00	Definition statement	slave unit	<u>Replace</u> with:  follower unit
B25J 3/04	Definition statement	Master-slave manipulators	<u>Replace</u> with:  Leader-follower manipulators
B25J 3/04	Definition statement	master unit	<u>Replace both instances</u> with:  leader unit
B25J 3/04	Definition statement	slave unit	<u>Replace both instances</u> with:  follower unit
B25J 3/04	Limiting references	Control systems of master-slave manipulators B25J 9/1689	<u>Replace</u> with:  Control systems of leader- follower manipulators B25J 9/1689
B25J 3/04	Limiting references	Master part in the form of hand-grip control means B25J 13/02	<u>Replace</u> with:  Leader part in the form of hand-grip control means B25J 13/02
B25J 9/0081	Glossary of terms	Master teach-in means	<u>Replace</u> with:  Leader teach-in means
B25J 9/1689	Special rules	Master / slave systems	<u>Replace</u> with:  Leader-follower systems
G04C 13/00	Definition statement	Master-slave clock systems	<u>Replace</u> with:

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			Primary-secondary clock systems
G04C 13/00	Definition statement	slave clocks	<u>Replace</u> with:  secondary clocks
G04C 13/00	Definition statement	master clock	<u>Replace</u> with:  primary clock
G04C 13/04	Definition statement	master clock	<u>Replace</u> with:  primary clock
G04C 13/08	Definition statement	slave clocks	<u>Replace</u> with:  secondary clocks
H04W 84/18	Definition statement	Users define network(s), affiliation(s), can elect a regulating authority (master), can act as relaying device on behalf of other users.	<u>Replace</u> with:  Users define network(s) or affiliation(s), can elect a regulating authority (leader) or can act as relaying device on behalf of other users.
H04W 84/18	Definition statement	Master-slave aspects	<u>Replace</u> with:  Leader-follower aspects
H04W 84/20	Definition statement	This group covers only the (re-)election of a master (also "transfer" of master role).	<u>Replace</u> with:  This group covers only the (re-)election of a leader (also "transfer" of leader role).
H04W 92/04	Informative references	Master-slave arrangements in self-organizing networks H04W 84/20	<u>Replace</u> with:  Leader-follower arrangements in self-organizing networks H04W 84/20

**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.*