

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 655

DATE: MAY 1, 2019

PROJECT RP0283

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
<b>SCHEME:</b>		
Symbols Deleted:	G05D	1/0883
Symbols New:	B64G	1/244
	G05D	1/0688, 1/106, 1/1062, 1/1064
Titles Changed:	B64G	2001/245
Warnings New:	B64G	1/24, 1/244
	G05D	1/06, 1/0607, 1/0688, 1/10, 1/101, 1/105, 1/106, 1/1062, 1/1064
<b>DEFINITIONS:</b>		
Definitions New:	G05D	1/12
Definitions Modified:	G05D	subclass
	B64G	1/24

**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

A. New, Modified or Deleted Group(s)

**SUBCLASS G05D: SYSTEMS FOR CONTROLLING OR REGULATING NON-ELECTRIC VARIABLES (for continuous casting of metals B22D 11/16 ; valves per se F16K; sensing non-electric variables, see the relevant subclasses of G01; for regulating electric or magnetic variables G05F)**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
C	G05D 1/06	2	Rate of change of altitude or depth	G05D 1/06, G05D 1/0688
C	G05D 1/0607	3	{specially adapted for aircraft }	G05D 1/0607, G05D 1/0688
U	G05D 1/0684	6	{on a moving platform, e.g. aircraft carrier }	
N	G05D 1/0688	4	{Emergency descent }	
D	G05D 1/0883	2	{specially adapted for space vehicles }	<Administrative transfer to B64G1/244>
C	G05D 1/10	1	Simultaneous control of position or course in three dimensions (G05D 1/12 takes precedence)	G05D 1/10, G05D 1/106, G05D 1/1062, G05D 1/1064
C	G05D 1/101	2	{specially adapted for aircraft }	G05D 1/101, G05D 1/106, G05D 1/1062, G05D 1/1064
C	G05D 1/105	3	{specially adapted for unpowered flight, e.g. glider, parachuting, forced landing (parachutes <u>per se</u> B64D 17/00)}	G05D 1/105, G05D 1/106, G05D 1/1062, G05D 1/1064
N	G05D 1/106	3	{Change initiated in response to external conditions, e.g. avoidance of elevated terrain or of no-fly zones }	
N	G05D 1/1062	4	{specially adapted for avoiding bad weather conditions }	
N	G05D 1/1064	4	{specially adapted for avoiding collisions with other aircraft }	

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**SUBCLASS B64G COSMONAUTICS; VEHICLES OR EQUIPMENT THEREFOR (apparatus for, or methods of, winning materials from extraterrestrial sources E21C 51/00)**

<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>
U	B64G 1/22	1	Parts of, or equipment specially adapted for fitting in or to, cosmonautic vehicles	
C	B64G 1/24	2	Guiding or controlling apparatus, e.g. for attitude control (jet-propulsion plants F02K; navigation or navigational instruments, see the relevant subclass, e.g. G01C; automatic pilots G05D1/00)	B64G 1/24, B64G 1/244
U	B64G 1/242	3	{Orbits and trajectories}	
N	B64G 1/244	3	{Attitude control}	
M	B64G 2001/245	3	{Attitude control algorithms for spacecraft attitude control}	

\*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; E= 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 finalisation projects, the deleted “F” symbols should have <no transfer> in the “Transferred to” column.
- For more details about the types of scheme change, see CPC Guide.

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B. New, Modified or Deleted Warning(s)

**SUBCLASS B64G - COSMONAUTICS; VEHICLES OR EQUIPMENT THEREFOR** (apparatus for, or methods of, winning materials from extraterrestrial sources E21C 51/00)

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	B64G 1/24		Group B64G 1/24 is impacted by reclassification into group B64G 1/244. Groups B64G 1/24 and B64G 1/244 should be considered in order to perform a complete search.
N	B64G 1/244		Group B64G 1/244 is incomplete pending reclassification of documents from group B64G 1/24. Groups B64G 1/24 and B64G 1/244 should be considered in order to perform a complete search.

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

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	G05D 1/06		Group G05D 1/06 is impacted by reclassification into group G05D 1/0688. Groups G05D 1/06 and G05D 1/0688 should be considered in order to perform a complete search.
N	G05D 1/0607		Group G05D 1/0607 is impacted by reclassification into group G05D 1/0688. Groups G05D 1/0607 and G05D 1/0688 should be considered in order to perform a complete search.
N	G05D 1/0688		Group G05D 1/0688 is incomplete pending reclassification of documents from groups G05D 1/06 and G05D 1/0607. Groups G05D 1/06, G05D 1/0607 and G05D 1/0688 should be considered in order to perform a complete search.
N	G05D 1/10		Group G05D 1/10 is impacted by reclassification into groups G05D 1/106, G05D 1/1062 and G05D 1/1064. All groups listed in this Warning should be considered in order to perform a complete search.
N	G05D 1/101		Group G05D 1/101 is impacted by reclassification into groups G05D 1/106, G05D 1/1062 and G05D 1/1064. All groups listed in this Warning should be considered in order to perform a complete search.
N	G05D 1/105		Group G05D 1/105 is impacted by reclassification into groups G05D 1/106, G05D 1/1062 and G05D 1/1064. All groups

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			listed in this Warning should be considered in order to perform a complete search.
N	G05D 1/106		Group G05D 1/106 is incomplete pending reclassification of documents from groups G05D 1/10, G05D 1/101 and G05D 1/105. All groups listed in this Warning should be considered in order to perform a complete search.
N	G05D 1/1062		Group G05D 1/1062 is incomplete pending reclassification of documents from groups G05D 1/10, G05D 1/101 and G05D 1/105. All groups listed in this Warning should be considered in order to perform a complete search.
N	G05D 1/1064		Group G05D 1/1064 is incomplete pending reclassification of documents from groups G05D 1/10, G05D 1/101 and G05D 1/105. All groups listed in this Warning should be considered in order to perform a complete search.

\*N = new warning, M = modified warning, D = deleted warning

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

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## 2. A. DEFINITIONS (new)

Insert: The following new Definition.

### G05D 1/12

#### Definition statement

*This place covers:*

Control of vehicle position to acquire, maintain or re-acquire a target, e.g. a person or another vehicle, for tracking, following or interdiction purposes.

#### References

##### Informative references

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

Direction control systems for self-propelled missiles	<a href="#">F41G 7/00</a>
Analysis of motion	<a href="#">G06T 7/20</a>
Target detection	<a href="#">G06K 2209/21</a>

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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>
G05D	Special rules of classification	Control systems specially adapted for particular apparatuses, machines or processes are classified in the subclasses for the apparatus, machine or process, provided that there is specific provision for control or regulation relevant to the special adaptation, either at a detailed level, (e.g. <a href="#">A21B 1/40</a> : "for regulating temperature in bakers' ovens") or at a general level, (e.g. <a href="#">B23K 9/095</a> : "for automatic control of welding parameters in arc welding"). Otherwise, classification is made in the most appropriate place in this subclass.	<b>Insert</b> the text shown below <b>before</b> the <b>last</b> sentence in the <b>first</b> paragraph of the Special rules of classification section.  Controlling aspects of space crafts are excluded from the G05D. They should be classified in B64G 1/244
B64G 1/24	Limiting references		<b>Insert:</b> The following new Limiting references section. <b>Limiting references</b> <i>This place does not cover:</i>  Navigation or navigational instruments <a href="#">G01C</a> Jet propulsion plants <a href="#">F02K</a> Automatic pilots <a href="#">G05D1/00</a>
B64G 1/24	Informative references	Jet propulsion plants <a href="#">F02K</a> Navigation or navigational instruments, see the relevant subclasses, e.g. <a href="#">G01C</a> Automatic pilots <a href="#">G05D1/00</a>	<b>Delete:</b> The following three references from the Informative references table.  Jet propulsion plants <a href="#">F02K</a> Navigation or navigational instruments, see the relevant subclasses, e.g. <a href="#">G01C</a> Automatic pilots <a href="#">G05D1/00</a>

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.

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3. REVISION CONCORDANCE LIST (RCL)

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
C	B64G 1/24	B64G 1/24, B64G 1/244
C	G05D 1/06	G05D 1/06, G05D 1/0688
C	G05D 1/0607	G05D 1/0607, G05D 1/0688
D	G05D 1/0883	<administrative transfer to B64G 1/244>
C	G05D 1/10	G05D 1/10, G05D 1/106, G05D 1/1062, G05D 1/1064
C	G05D 1/101	G05D 1/101, G05D 1/106, G05D 1/1062, G05D 1/1064
C	G05D 1/105	G05D 1/105, G05D 1/106, G05D 1/1062, G05D 1/1064

\* C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; D = deleted entries.

NOTES:

- Only C, D, and Q type entries are included in the table above.
- When multiple symbols are included in the “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>” or “<administrative transfer to XX and YY simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be “invention information”, unless otherwise indicated, and to 2000 series groups is assumed to be “additional information”.



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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B64G 1/244	B64G 1/24	NEW
G05D 1/0688	G05D 1/06	NEW
G05D 1/0883		DELETE
G05D 1/106	G05D 1/10	NEW
G05D 1/1062	G05D 1/10	NEW
G05D 1/1064	G05D 1/10	NEW

\*Action column:

- For an (N) or (Q) entry, provide an IPC symbol and complete the Action column with “NEW.”
- For an existing CPC main trunk entry or indexing entry where the existing IPC symbol needs to be changed, provide an updated IPC symbol and complete the Action column with “UPDATED.”
- For a (D) CPC entry or indexing entry complete the Action column with “DELETE.” IPC symbol does not need to be included in the IPC column.
- For an (N) 2000 series CPC entry which is positioned within the main trunk scheme (breakdown code) provide an IPC symbol and complete the action column with “NEW”.
- For an (N) 2000 series CPC entry positioned at the end of the CPC scheme (orthogonal code), with no IPC equivalent, complete the IPC column with “CPCONLY” and complete the action column with “NEW”.

NOTES:

- F symbols are not included in the CICL table above.
- E and M symbols are not included in the CICL table above unless a change to the existing IPC is desired.