

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1223

DATE: JANUARY 1, 2022

PROJECT RP0763

**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:	G06F	3/04812, 3/04815, 3/04817, 3/0482, 3/0483, 3/0484, 3/04842, 3/04845, 3/04847, 3/04855, 3/04883, 3/04886, 3/04892, 3/04895
<b>DEFINITIONS:</b>		
Definitions New:	G06F	3/0484, 3/04892
Definitions Modified:	G06F	3/048, 3/04812, 3/04815, 3/0482, 3/0483, 3/04842, 3/04845, 3/0485, 3/0486, 3/0488, 3/04883, 3/04886, 3/0489

**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 G06F - ELECTRIC DIGITAL DATA PROCESSING**

<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	G06F 3/04812	4	Interaction techniques based on cursor appearance or behaviour, e.g. being affected by the presence of displayed objects	
M	G06F 3/04815	4	Interaction with a metaphor-based environment or interaction object displayed as three-dimensional, e.g. changing the user viewpoint with respect to the environment or object	
M	G06F 3/04817	4	using icons (graphical or visual programming using iconic symbols G06F 8/34)	
M	G06F 3/0482	4	Interaction with lists of selectable items, e.g. menus	
M	G06F 3/0483	4	Interaction with page-structured environments, e.g. book metaphor	
M	G06F 3/0484	3	for the control of specific functions or operations, e.g. selecting or manipulating an object, an image or a displayed text element, setting a parameter value or selecting a range	
M	G06F 3/04842	4	Selection of displayed objects or displayed text elements (G06F 3/0482 takes precedence)	
M	G06F 3/04845	4	for image manipulation, e.g. dragging, rotation, expansion or change of colour	
M	G06F 3/04847	4	Interaction techniques to control parameter settings, e.g. interaction with sliders or dials	
M	G06F 3/04855	5	Interaction with scrollbars	
M	G06F 3/04883	5	for inputting data by handwriting, e.g. gesture or text	
M	G06F 3/04886	5	by partitioning the display area of the touch-screen or the surface of the digitising tablet into independently controllable areas, e.g. virtual keyboards or menus	

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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> <b>“CPC only” text should normally be enclosed in {curly brackets}**</b>	<u>Transferred to#</u>
M	G06F 3/04892	5	Arrangements for controlling cursor position based on codes indicative of curs or displacements from one discrete location to another, e.g. using cursor control keys associated to different directions or using the tab key (arrangements for controlling cursor position based on coordinate signals G06F 3/038)	
M	G06F 3/04895	5	Guidance during keyboard input operation, e.g. prompting	

\*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 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.

## 2. A. DEFINITIONS (new)

Insert: The following new Definitions.

### G06F 3/0484

#### 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:*

Edit or processing of text	<a href="#">G06F 40/10</a>
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### G06F 3/04892

#### Limiting references

*This place does not cover:*

Arrangements for controlling cursor position based on coordinate signals	<a href="#">G06F 3/038</a>
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## 2. A. DEFINITIONS (modified)

### G06F 3/048

#### Definition statement

*This place covers:*

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

Subject matter where the focus is on the way the user can interact with the displayed data, usually by means of pointing devices, irrespective of the type of data treated by the software application or the type of device embedding data processing capability.

As to the design of an interaction technique, this is most commonly determined by one or more of three factors, also in combination:

- the specific behaviour or appearance, of the graphical element or virtual environment;
- the kind of input events that can be generated by a specific input device used to interact with the displayed elements of the GUI;
- the type of operation or function to be performed with relation to these elements.

#### Relationships with other classification places

Replace: The existing Relationships with other classification places text with the following updated text.

GUIs are widely used to interact with any type of software application, (e.g. operating system, word-processing or information retrieval applications, spreadsheets, etc.), executed on a general-purpose computer or on a specific device (e.g. car navigation system, telephone, photocopy machine).

Documents mentioning or implying the presence of a standard GUI in the context of the disclosure of a specific software application or a specific device capable of processing data related to its specific function, should be in general classified in the appropriate subclasses related to those software applications or specific devices.

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**References**Delete: The entire Limiting references section and table.Insert: The following new Informative references section and table.**Informative references***Attention is drawn to the following places, which may be of interest for search:*

Hardware interface between computer and display	<a href="#">G06F 3/14</a>
User interface programs, e.g. command shells, help systems, UIMS	<a href="#">G06F 9/451</a>
Input/output arrangements of navigation systems	<a href="#">G01C 21/36</a>
Program-control in industrial systems	<a href="#">G05B 19/00</a>
Drawing of charts or graphs	<a href="#">G06T 11/206</a>
Editing figures and text	<a href="#">G06T 11/60</a>
Control arrangements or circuits for visual displays	<a href="#">G09G 5/00</a>
Display of multiple viewports	<a href="#">G09G 5/14</a>
Interaction with a remote controller on a TV display	<a href="#">H04N 21/42204</a>
End user interface for interactive television or video on demand	<a href="#">H04N 21/47</a>

**G06F 3/04812****References**Delete: The entire Limiting references section and table.Insert: The following new Informative references section and table.

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

Interaction techniques based on cursor behaviour involving tactile or force feedback	<a href="#">G06F 3/016</a>
Interaction techniques for the selection of a displayed object	<a href="#">G06F 3/04842</a>

**G06F 3/04815****References**Delete: The entire Limiting references section and table.**Informative references***Attention is drawn to the following places, which may be of interest for search:*Insert: The following two new references in the existing Informative references table.

Navigational instruments, e.g. visual route guidance using 3D or perspective road maps (including 3D objects and buildings)	<a href="#">G01C 21/3635</a> , <a href="#">G01C 21/3638</a>
Navigation within 3D models or images (Walk- or flight-through a virtual museum, a virtual building, a virtual landscape etc.)	<a href="#">G06T 19/003</a>

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## G06F 3/0482

### References

Delete: The entire Limiting references section and table.

Insert: The following new Informative references section and table.

### Informative references

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

User interfaces specially adapted for operating a cordless or mobile telephone by selecting functions from two or more displayed items, e.g. menus or icons	<a href="#">H04M 1/72469</a>
Menu-type displays in TV receivers	<a href="#">H04N 21/47</a>

## G06F 3/0483

### Definition statement

*This place covers:*

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

Documents which relate to tabs.

Interaction techniques of e-books when they are heavily book-inspired.

### References

Delete: The entire Limiting references section and table.



Insert: The following new Informative references section and table.

### **Informative references**

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

Electronic books, also known as e-books	<a href="#">G06F 15/02</a> , <a href="#">G06F 15/0283</a>
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### **G06F 3/04842**

#### **Definition statement**

*This place covers:*

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

GUI interaction techniques specifically designed for selecting a displayed object, e.g. a window or an icon.

Selection by a pointing device (in the sense of G06F 3/03) such as a mouse, a joystick, a digitiser, etc.

Insert: The following new Limiting references section and table.

### **Limiting references**

*This place does not cover:*

Interaction with lists of selectable items, e.g. menus	<a href="#">G06F 3/0482</a>
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## Special rules of classification

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

There are some older documents relating to selection by keyboard classified here. However, all new documents related to the latter are now classified in [G06F 3/0489](#).

Every time a set of displayed objects can be considered as structured as a "list of selectable items", the interaction technique for selecting an item should be classified in [G06F 3/0482](#).

## G06F 3/04845

### Definition statement

*This place covers:*

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

Image manipulation, e.g. dragging or rotation of the whole image, resizing of objects, changing their colour etc.

### References

Delete: The entire Limiting references section and table.

Insert: The following new Informative references section and table.

### Informative references

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

Image data processing or generation, in general	G06T
Editing figures and text; Combining figures or text	G06T 11/60

### G06F 3/0485

#### Definition statement

*This place covers:*

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

Documents dealing with panning control.

Delete: The entire Limiting references section and table.

#### Glossary of terms

*In this place, the following terms or expressions are used with the meaning indicated:*

Replace: The existing Glossary of terms text with the following updated text.

Scrolling	"Dragging" in some applications, i.e. depicting a user gesture which is not causing a motion of a previously selected object, but rather a motion of a reference within a given context.
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## G06F 3/0486

### References

Delete: The entire Limiting references section and table.

Insert: The following new Informative references section and table.

### Informative references

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

Interaction techniques to control scrolling	<a href="#">G06F 3/0485</a>
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### Glossary of terms

*In this place, the following terms or expressions are used with the meaning indicated:*

Replace: The existing Glossary of terms text with the following updated text.

Dragging	"Scrolling", i.e. depicting a user gesture which is not causing a motion of a previously selected object, but rather a motion of a reference within a given context.
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**G06F 3/0488**

Delete: The entire Relationships with other classification places section.

**References**

Delete: The entire Limiting references section and table.

Insert: The following new Informative references section and table.

**Informative references**

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

Constructional details of digitisers	<a href="#">G06F 3/041</a>
Details of input/output arrangements of navigation systems including use of a touch screen and gestures	<a href="#">G01C 21/3664</a>

**G06F 3/04883****References**

Delete: The entire Limiting references section and table.

Insert: The following new Informative references section and table.

**Informative references**

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

3D input gestures	<a href="#">G06F 3/017</a>
Signature recognition	<a href="#">G06V 40/30</a>
Digital ink recognition	<a href="#">G06V 30/32</a>
Handwriting per se	<a href="#">G06V 30/1423</a>

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## **G06F 3/04886**

### **Definition statement**

*This place covers:*

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

Virtual keyboards displayed on a touchscreen or as a template on a tablet.

### **References**

Delete: The entire Limiting references section and table.

Replace: The text in the Informative reference table with the following updated text.

### **Informative references**

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

Arrangements for projecting a virtual keyboard in a portable computers	<a href="#">G06F 1/1673</a>
Character input methods like chording, prediction or disambiguation used on a keyboard	<a href="#">G06F 3/0233</a>
Programmable (hardware) keyboards	<a href="#">G06F 3/0238</a>
Entering handwritten data, e.g. gesture or text	<a href="#">G06F 3/04883</a>
Converting codes to words or guess-ahead of partial word inputs	<a href="#">G06F 40/274</a>

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## **G06F 3/0489**

Insert: The following new Definition statement.

### **Definition statement**

*This place covers:*

The use of keyboard keys dedicated to specific functions, e.g. <Scroll Lock>, <Home>, <PgUp> keys, as well as the use of specific combinations of keyboard keys, e.g. <Ctrl>+<A>, <Ctrl>+<C>, whereby the "+" means that the two keys have to be pressed together.

Delete: The entire Relationships with other classification places section.

## **References**

Delete: The entire Limiting references section and table.

Insert: The following new Informative references section and table.

### **Informative references**

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

Selecting from displayed items by using keys for character input	<a href="#">G06F 3/0236</a>
Automatic teller machines (ATM)	<a href="#">G07F 19/20</a>
Adjusting display parameters	<a href="#">G09G 5/00</a>

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
G06F 3/04812	G06F 3/04812	UPDATED
G06F 3/04815	G06F 3/04815	UPDATED
G06F 3/04817	G06F 3/04817	UPDATED
G06F 3/04842	G06F 3/04842	UPDATED
G06F 3/04845	G06F 3/04845	UPDATED
G06F 3/04847	G06F 3/04847	UPDATED
G06F 3/04855	G06F 3/04855	UPDATED
G06F 3/04883	G06F 3/04883	UPDATED
G06F 3/04886	G06F 3/04886	UPDATED
G06F 3/04892	G06F 3/04892	UPDATED
G06F 3/04895	G06F 3/04895	UPDATED

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