

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 488

DATE: FEBRUARY 1, 2018

PROJECT RP0504

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Symbols Deleted:	G06F	8/665, 8/67, 8/68
	G06F	9/4421, 9/4423, 9/4425, 9/4426, 9/4428, 9/443, 9/4431, 9/4433, 9/4435, 9/4436, 9/4438, 9/444, 9/4443, 9/4445, 9/4446, 9/4448
Symbols New:	G06F	8/654, 8/656, 8/658
	G06F	9/448, 9/4482, 9/4484, 9/4486, 9/4488, 9/449, 9/4491, 9/4492, 9/4493, 9/4494, 9/4496, 9/4498, 9/451, 9/452, 9/453, 9/454
Titles Changed:	G06F	1/00
	G06F	8/00, 8/10, 8/20, 8/24, 8/30, 8/33, 8/34, 8/35, 8/36, 8/38, 8/40, 8/41, 8/4434, 8/51, 8/52, 8/53, 8/54, 8/60, 8/61, 8/65, 8/66, 8/70, 8/71, 8/72, 8/73, 8/74, 8/75, 8/76, 8/77
	G06F	9/00, 9/02, 9/04, 9/06, 9/22, 9/24, 9/26, 9/30, 9/32, 9/321, 9/44505, 9/44589, 2009/45575, 9/44, 9/4401, 9/4413, 9/4416, 9/445, 9/455, 9/48, 9/52, 9/54, 9/548
	G06F	12/02, 12/14
	G06F	13/10
	G06F	15/00, 15/02, 15/16, 15/167, 15/173
Warnings New:	G06F	8/65, 8/71, 9/445, 21/57
Warnings Modified:	G06F	subclass
DEFINITIONS:		
Definitions Deleted:	G06F	8/665, 8/67, 8/68
	G06F	9/4421, 9/4425, 9/4426, 9/4428, 9/443, 9/4431, 9/4433, 9/4435, 9/4436, 9/4443, 9/4445, 9/4446, 9/4448
Definitions Modified:		
	G06F	8/24, 8/38, 8/60
	G06F	9/32, 9/54

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The following subclasses/groups are also impacted by this Notice of Changes): B60K, G06T, H04L, H04M, and H04N

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 (computer systems based on specific computational models G06N)

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	G06F1/00	0	Details not covered by groups G06F 3/00 – G06F 13/00 and G06F 21/00 (architectures of general purpose stored program computers G06F 15/76)	
M	G06F 8/00	0	Arrangements for software engineering (testing or debugging G06F 11/36; administrative, planning or organisation aspects of software project management G06Q 10/06)	
M	G06F 8/10	1	Requirements analysis; Specification techniques	
M	G06F 8/20	1	Software design	
U	G06F 8/22	2	{Procedural}	
M	G06F 8/24	2	{Object-oriented}	
M	G06F 8/30	1	Creation or generation of source code	
M	G06F 8/33	2	Intelligent editors	
M	G06F 8/34	2	Graphical or visual programming	
M	G06F 8/35	2	Model driven	
U	G06F 8/355	3	{Round-trip engineering}	
M	G06F 8/36	2	Software reuse	
U	G06F 8/37	2	{Compiler construction; Parser generation}	
M	G06F 8/38	2	for implementing user interfaces	
M	G06F 8/40	1	Transformation of program code	
M	G06F 8/41	2	Compilation	
M	G06F 8/4434	5	{Reducing the memory space required by the program code}	
M	G06F 8/51	2	Source to source	
M	G06F 8/52	2	Binary to binary	
M	G06F 8/53	2	Decompilation; Disassembly	
M	G06F 8/54	2	Link editing before load time	
M	G06F 8/60	1	Software deployment	
M	G06F 8/61	2	Installation	
C	G06F 8/65	2	Updates (security arrangements therefor G06F21/57)	G06F 8/65, G06F 21/57, G06F 21/572, G06F 21/575, G06F 21/577

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of</u> <u>dots (e.g. 0,</u> <u>1, 2)</u>	<u>Title</u> <u>(new or modified)</u> <u>“CPC only” text should normally be</u> <u>enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
N	G06F 8/654	3	using techniques specially adapted for alterable solid state memories, e.g. for EEPROM or flash memories	
N	G06F 8/656	3	while running	
N	G06F 8/658	3	Incremental updates; Differential updates	
M	G06F 8/66	3	{of program code stored in read-only memory [ROM]}	
D	G06F 8/665	3	{of program code stored in alterable solid state memory, e.g. EEPROM, flash}	<administrative transfer to G06F 8/654>
D	G06F 8/67	3	{while running}	<administrative transfer to G06F 8/656>
D	G06F 8/68	3	{Incremental; Differential}	<administrative transfer to G06F 8/658>
M	G06F 8/70	1	Software maintenance or management	
C	G06F 8/71	2	Version control (security arrangements therefor G06F 21/57); Configuration management	G06F8/71 G06F21/57, G06F21/572, G06F21/575, G06F21/577
M	G06F 8/72	2	Code refactoring	
M	G06F 8/73	2	Program documentation	
M	G06F 8/74	2	Reverse engineering; Extracting design information from source code	
M	G06F 8/75	2	Structural analysis for program understanding	
U	G06F 8/751	3	{Code clone detection}	
M	G06F 8/76	2	Adapting program code to run in a different environment; Porting	
M	G06F 8/77	2	Software metrics	
U	G06F 8/78	2	{Methods to solve the "Year 2000" [Y2K] problem}	
M	G06F 9/00	0	Arrangements for program control, e.g. control units (program control for peripheral devices G06F 13/10)	
M	G06F 9/02	1	using wired connections, e.g. plugboards	
M	G06F 9/04	1	using record carriers containing only program instructions (G06F 9/06 takes precedence)	
M	G06F 9/06	1	using stored programs, i.e. using an internal store of processing equipment to receive or retain programs	
M	G06F 9/22	2	Microcontrol or microprogram arrangements	
M	G06F 9/24	3	Loading of the microprogram	
M	G06F 9/26	3	Address formation of the next micro-instruction (G06F 9/28 takes precedence) {; Microprogram storage or retrieval arrangements}	

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of</u> <u>dots (e.g. 0,</u> <u>1, 2)</u>	<u>Title</u> <u>(new or modified)</u> <u>“CPC only” text should normally be</u> <u>enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	G06F 9/30	2	Arrangements for executing machine instructions, e.g. instruction decode (for executing microinstructions G06F 9/22)	
M	G06F 9/32	3	Address formation of the next instruction, e.g. by incrementing the instruction counter (G06F9/38 takes precedence)	
M	G06F 9/321	4	{Program or instruction counter, e.g. incrementing}	
M	G06F 9/44	2	Arrangements for executing specific programs	
M	G06F 9/4401	3	Bootstrapping (security arrangements therefor G06F 21/57)	
M	G06F 9/4413	5	{Plug-and-play [PnP]}	
U	G06F 9/4415	6	{Self describing peripheral devices}	
M	G06F 9/4416	4	{Network booting; Remote initial program loading [RIPL]}	
D	G06F 9/4421	3	{Execution paradigms}	<administrative transfer to G06F 9/448>
D	G06F 9/4423	4	{Procedural}	<administrative transfer to G06F 9/4482>
D	G06F 9/4425	5	{Executing sub-programmes}	<administrative transfer to G06F 9/4484>
D	G06F 9/4426	6	{Formation of sub-programme jump address}	<administrative transfer to G06F 9/4486>
D	G06F 9/4428	4	{Object-oriented}	<administrative transfer to G06F 9/4488>
D	G06F 9/443	5	{Object-oriented method invocation or resolution}	<administrative transfer to G06F 9/449>
D	G06F 9/4431	6	{Optimising based on receiver type}	<administrative transfer to G06F 9/4491>
D	G06F 9/4433	5	{Inheritance}	<administrative transfer to G06F 9/4492>
D	G06F 9/4435	5	{Object persistence}	<administrative transfer to G06F 9/4493>
D	G06F 9/4436	4	{Data-driven}	<administrative transfer to G06F 9/4494>
D	G06F 9/4438	4	{Unification in logic programming}	<administrative transfer to G06F 9/4496>
D	G06F 9/444	4	{Finite state machines}	<administrative transfer to G06F 9/4498>
D	G06F 9/4443	3	{Execution mechanisms for user interfaces}	<administrative transfer to G06F 9/451>
D	G06F 9/4445	4	{Remote windowing, e.g. X-Window System, desktop virtualisation (protocols for telewriting H04L67/38)}	<administrative transfer to G06F 9/452>
D	G06F 9/4446	4	{Help systems}	<administrative transfer to G06F 9/453>

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of</u> <u>dots (e.g. 0,</u> <u>1, 2)</u>	<u>Title</u> <u>(new or modified)</u> <u>“CPC only” text should normally be</u> <u>enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
D	G06F 9/4448	4	{Multi-language systems; Localisation; Internationalisation}	<administrative transfer to G06F 9/454>
C	G06F 9/445	3	Program loading or initiating (bootstrapping G06F 9/4401; security arrangements for program loading or initiating G06F 21/57)	G06F 9/445, G06F 21/57, G06F21/572, G06F21/575, G06F21/577
M	G06F 9/44505	4	{Configuring for program initiating, e.g. using registry, configuration files}	
M	G06F 9/44589	4	{Program code verification, e.g. Java bytecode verification, proof-carrying code (high-level semantic checks G06F 8/43; testing and debugging software G06F 11/36)}	
U	G06F9/44594	4	{Unloading}	
N	G06F 9/448	3	Execution paradigms, e.g. implementations of programming paradigms	
N	G06F 9/4482	4	{Procedural}	
N	G06F 9/4484	5	{Executing subprograms}	
N	G06F 9/4486	6	{Formation of subprogram jump address}	
N	G06F 9/4488	4	{Object-oriented}	
N	G06F 9/449	5	{Object-oriented method invocation or resolution}	
N	G06F 9/4491	6	{Optimising based on receiver type}	
N	G06F 9/4492	5	{Inheritance}	
N	G06F 9/4493	5	{Object persistence}	
N	G06F 9/4494	4	{data driven}	
N	G06F 9/4496	4	{Unification in logic programming}	
N	G06F 9/4498	4	{Finite state machines}	
N	G06F 9/451	3	Execution arrangements for user interfaces	
N	G06F 9/452	4	{Remote windowing, e.g. X-Window System, desktop virtualisation (protocols for telewriting H04L67/38)}	
N	G06F 9/453	4	{Help systems}	
N	G06F 9/454	4	{Multi-language systems; Localisation; Internationalisation}	
M	G06F 9/455	3	Emulation; Interpretation; Software simulation, e.g. virtualisation or emulation of application or operating system execution engines	
M	G06F 2009/45575	6	{Starting, stopping, suspending, resuming virtual machine instances (program initiating G06F 9/445; task life-cycle in general G06F9/485)}	
U	G06F 9/46	2	Multiprogramming arrangements	
M	G06F 9/48	3	Program initiating; Program switching, e.g. by interrupt	

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of</u> <u>dots (e.g. 0,</u> <u>1, 2)</u>	<u>Title</u> <u>(new or modified)</u> <u>“CPC only” text should normally be</u> <u>enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	G06F 9/52	3	Program synchronisation; Mutual exclusion, e.g. by means of semaphores	
M	G06F 9/54	3	Interprogram communication	
M	G06F 9/548	5	{Object oriented; Remote method invocation [RMI] (non-remote method invocation G06F9/449)}	
M	G06F 12/02	1	Addressing or allocation; Relocation (program address sequencing G06F 9/00; arrangements for selecting an address in a digital store G11C8/00)	
M	G06F 12/14	1	Protection against unauthorised use of memory {or access to memory}	
M	G06F 13/10	1	Program control for peripheral devices (G06F13/14 - G06F13/42 take precedence)	
M	G06F 15/00	0	Digital computers in general (details G06F1/00 – G06F 13/00); Data processing equipment in general	
M	G06F 15/02	1	manually operated with input through keyboard and computation using a built-in program, e.g. pocket calculators	
M	G06F 15/16	1	Combinations of two or more digital computers each having at least an arithmetic unit, a program unit and a register, e.g. for a simultaneous processing of several programs {(coordinating program control therefor G06F9/52; in regulating and control system G05B)}	
M	G06F 15/167	3	using a common memory, e.g. mailbox	
M	G06F 15/173	3	using an interconnection network, e.g. matrix, shuffle, pyramid, star, snowflake	
E	G06F 21/57	2	Certifying or maintaining trusted computer platforms, e.g. secure boots or power-downs, version controls, system software checks, secure updates or assessing vulnerabilities	
E	G06F 21/572	3	{Secure firmware programming, e.g. of basic input output system [BIOS]}	
E	G06F 21/575	3	{Secure boot}	
E	G06F 21/577	3	{Assessing vulnerabilities and evaluating computer system security}	

*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.

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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).
- For U groups, the minimum requirement is to include the U group located immediately prior to the N group or N group array, in order to show the N group hierarchy and improve the readability and understanding of the scheme. 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 except “D” which requires only a symbol.
- #“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>” 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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B. New, Modified or Deleted Warning notice(s)

SUBCLASS G06F – ELECTRIC DIGITAL DATA PROCESSING (computer systems based on specific computational models G06N)

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
M	G06F	G06F9/40 covered by G06F9/4425 and subgroups G06F9/42 covered by G06F9/4426 and subgroups G06F9/45 covered by G06F8/41 and subgroups	Delete the <u>three</u> statements from the existing warning.
N	G06F8/65		Group G06F 8/65 is impacted by reclassification into groups G06F 21/57 - G06F 21/577. All groups listed in this Warning should be considered in order to perform a complete search.
N	G06F8/71		Group G06F 8/71 is impacted by reclassification into groups G06F 21/57- G06F 21/577. All groups listed in this Warning should be considered in order to perform a complete search.
N	G06F9/445		Group G06F 9/445 is impacted by reclassification into groups G06F 21/57 - G06F 21/577. All groups listed in this Warning should be considered in order to perform a complete search.
N	G06F21/57		Group G06F 21/57 - G06F 21/577 is incomplete pending reclassification of documents from groups G06F 8/65, G06F 8/71, and G06F 9/445. 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. B. DEFINITIONS QUICK FIX

<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol</u> <u>or text</u>	<u>Action; New symbol;</u> <u>New text</u>
G06F8/24	Informative references	G06F9/443	G06F 9/449
G06F8/24	Informative references	G06F9/4433 (first occurrence)	G06F 9/4492
G06F8/24	Informative references	G06F9/4433 (second occurrence)	G06F 9/4492
G06F8/38	Limiting references	G06F 9/4443	G06F 9/451
G06F 8/60	Special rules of classification	G06F 9/4446	G06F 9/453
G06F 8/665			Delete the entire definition.
G06F 8/67			Delete the entire definition.
G06F 8/68			Delete the entire definition.
G06F9/32	Informative references	G06F 9/4426	G06F 9/4486
G06F 9/4421			Delete the entire definition.
G06F 9/4425			Delete the entire definition.
G06F 9/4426			Delete the entire definition.
G06F 9/4428			Delete the entire definition.
G06F 9/443			Delete the entire definition.
G06F 9/4431			Delete the entire definition.
G06F 9/4433			Delete the entire definition.
G06F 9/4435			Delete the entire definition.
G06F 9/4436			Delete the entire definition.
G06F 9/4443			Delete the entire definition.
G06F 9/4445			Delete the entire definition.
G06F 9/4446			Delete the entire definition.
G06F 9/4448			Delete the entire definition.
G06F 9/54	Limiting references	G06F 9/443	G06F 9/449

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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)

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
C	G06F 8/65	G06F 8/65, G06F 21/57, G06F 21/572, G06F 21/575, G06F 21/577
D	G06F 8/665	<administrative transfer to G06F 8/654>
D	G06F 8/67	<administrative transfer to G06F 8/656>
D	G06F 8/68	<administrative transfer to G06F 8/658>
C	G06F 8/71	G06F 8/71, G06F 21/57, G06F 21/572, G06F 21/575, G06F 21/577
D	G06F 9/4421	<administrative transfer to G06F 9/448>
D	G06F 9/4423	<administrative transfer to G06F 9/4482>
D	G06F 9/4425	<administrative transfer to G06F 9/4484>
D	G06F 9/4426	<administrative transfer to G06F 9/4486>
D	G06F 9/4428	<administrative transfer to G06F 9/4488>
D	G06F 9/443	<administrative transfer to G06F 9/449>
D	G06F 9/4431	<administrative transfer to G06F 9/4491>
D	G06F 9/4433	<administrative transfer to G06F 9/4492>
D	G06F 9/4435	<administrative transfer to G06F 9/4493>
D	G06F 9/4436	<administrative transfer to G06F 9/4494>
D	G06F 9/4438	<administrative transfer to G06F 9/4496>
D	G06F 9/444	<administrative transfer to G06F 9/4498>
D	G06F 9/4443	<administrative transfer to G06F 9/451>
D	G06F 9/4445	<administrative transfer to G06F 9/452>
D	G06F 9/4446	<administrative transfer to G06F 9/453>
D	G06F 9/4448	<administrative transfer to G06F 9/454>
C	G06F 9/445	G06F 9/445, G06F 21/57, G06F 21/572, G06F 21/575, G06F 21/577

* 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, F 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>
G06F 8/22	G06F 8/20	UPDATE
G06F 8/24	G06F 8/20	UPDATE
G06F 8/31	G06F 8/30	UPDATE
G06F 8/311	G06F 8/30	UPDATE
G06F 8/312	G06F 8/30	UPDATE
G06F 8/313	G06F 8/30	UPDATE
G06F 8/3135	G06F 8/30	UPDATE
G06F 8/314	G06F 8/30	UPDATE
G06F 8/315	G06F 8/30	UPDATE
G06F 8/316	G06F 8/30	UPDATE
G06F 8/33	G06F 8/33	UPDATE
G06F 8/355	G06F 8/35	UPDATE
G06F 8/37	G06F 8/30	UPDATE
G06F 8/42	G06F 8/41	UPDATE
G06F 8/423	G06F 8/41	UPDATE
G06F 8/425	G06F 8/41	UPDATE
G06F 8/427	G06F 8/41	UPDATE
G06F 8/43	G06F 8/41	UPDATE
G06F 8/433	G06F 8/41	UPDATE
G06F 8/434	G06F 8/41	UPDATE
G06F 8/436	G06F 8/41	UPDATE
G06F 8/437	G06F 8/41	UPDATE
G06F 8/44	G06F 8/41	UPDATE
G06F 8/441	G06F 8/41	UPDATE
G06F 8/443	G06F 8/41	UPDATE
G06F 8/4432	G06F 8/41	UPDATE
G06F 8/4434	G06F 8/41	UPDATE
G06F 8/4435	G06F 8/41	UPDATE
G06F 8/4436	G06F 8/41	UPDATE
G06F 8/4441	G06F 8/41	UPDATE
G06F 8/4442	G06F 8/41	UPDATE
G06F 8/4443	G06F 8/41	UPDATE
G06F 8/445	G06F 8/41	UPDATE
G06F 8/4451	G06F 8/41	UPDATE
G06F 8/4452	G06F 8/41	UPDATE
G06F 8/447	G06F 8/41	UPDATE
G06F 8/45	G06F 8/41	UPDATE
G06F 8/451	G06F 8/41	UPDATE
G06F 8/452	G06F 8/41	UPDATE
G06F 8/453	G06F 8/41	UPDATE
G06F 8/454	G06F 8/41	UPDATE

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
G06F 8/456	G06F 8/41	UPDATE
G06F 8/457	G06F 8/41	UPDATE
G06F 8/458	G06F 8/41	UPDATE
G06F 8/47	G06F 8/41	UPDATE
G06F 8/48	G06F 8/41	UPDATE
G06F 8/49	G06F 8/41	UPDATE
G06F 8/62	G06F 8/61	UPDATE
G06F 8/63	G06F 8/61	UPDATE
G06F 8/64	G06F 8/61	UPDATE
G06F 8/654	G06F 8/654	NEW
G06F 8/656	G06F 8/656	NEW
G06F 8/658	G06F 8/658	NEW
G06F 8/66	G06F 8/65	UPDATE
G06F 8/665		DELETE
G06F 8/67		DELETE
G06F 8/68		DELETE
G06F 8/751	G06F 8/75	UPDATE
G06F 8/76	G06F 8/76	UPDATE
G06F 8/78	G06F 8/70	UPDATE
G06F 9/4403	G06F 9/4401	UPDATE
G06F 9/4405	G06F 9/4401	UPDATE
G06F 9/4406	G06F 9/4401	UPDATE
G06F 9/4408	G06F 9/4401	UPDATE
G06F 9/441	G06F 9/4401	UPDATE
G06F 9/4411	G06F 9/4401	UPDATE
G06F 9/4413	G06F 9/4401	UPDATE
G06F 9/4415	G06F 9/4401	UPDATE
G06F 9/4416	G06F 9/4401	UPDATE
G06F 9/4418	G06F 9/4401	UPDATE
G06F 9/442	G06F 9/4401	UPDATE
G06F 9/4421	G06F 9/44	DELETE
G06F 9/4423	G06F 9/44	DELETE
G06F 9/4425	G06F 9/44	DELETE
G06F 9/4426	G06F 9/44	DELETE
G06F 9/4428	G06F 9/44	DELETE
G06F 9/443	G06F 9/44	DELETE
G06F 9/4431	G06F 9/44	DELETE
G06F 9/4433	G06F 9/44	DELETE
G06F 9/4435	G06F 9/44	DELETE
G06F 9/4436	G06F 9/44	DELETE
G06F 9/4438	G06F 9/44	DELETE
G06F 9/444	G06F 9/44	DELETE
G06F 9/4443	G06F 9/44	DELETE
G06F 9/4445	G06F 9/44	DELETE

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
G06F 9/4446	G06F 9/44	DELETE
G06F 9/4448	G06F 9/44	DELETE
G06F 9/448	G06F 9/448	NEW
G06F 9/4482	G06F 9/448	NEW
G06F 9/4484	G06F 9/448	NEW
G06F 9/4486	G06F 9/448	NEW
G06F 9/4488	G06F 9/448	NEW
G06F 9/449	G06F 9/448	NEW
G06F 9/4491	G06F 9/448	NEW
G06F 9/4492	G06F 9/448	NEW
G06F 9/4493	G06F 9/448	NEW
G06F 9/4494	G06F 9/448	NEW
G06F 9/4496	G06F 9/448	NEW
G06F 9/4498	G06F 9/448	NEW
G06F 9/451	G06F 9/451	NEW
G06F 9/452	G06F 9/451	NEW
G06F 9/453	G06F 9/451	NEW
G06F 9/454	G06F 9/451	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.

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5. CROSS-REFERENCE LIST (CRL)

Scheme references impacted by this revision project

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Action; New reference symbol; New text</u>
G06F 3/04895	G06F 9/4446	G06F 9/453
H04L 67/38	G06F 9/4445	G06F 9/452
H04N 21/4586	G06F 8/67	G06F 8/656

Definitions references impacted by this revision project

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Action; New reference symbol; New text</u>
B60K 35/00	G06F 9/4443	Informative references	G06F 9/451
B60K 35/00	G06F 9/4445	Informative references	G06F 9/452
B60K 37/02	G06F 9/4443	Informative references	G06F 9/451
B60K 37/06	G06F 9/4443	Informative references	G06F 9/451
G06F 3/048	G06F 9/4443	Limiting references	G06F 9/451
G06F 8/315	G06F 9/4428	Limiting references	G06F 9/4488
G06F 8/315	G06F 9/443	Limiting references	G06F 9/449
G06F 8/49	G06F 9/4431	Limiting references	G06F 9/4491
G06F 9/3867	G06F 9/4436	Relationships with other classification places	G06F 9/4494
G06F 9/44505	G06F 9/4446	Special rules of classification	G06F 9/453
G06F 11/36	G06F 9/4443	Relationships with other classification places	G06F 9/451
G06F 17/20	G06F 9/4448	Informative references	G06F 9/454
G06T 11/206	G06F 9/4443	Limiting references	G06F 9/451
H04L 67/36	G06F 9/4443	Informative references	G06F 9/451
H04M 1/72519	G06F 9/4443	Relationships with other classification places	G06F 9/451
H04M 1/72519	G06F 9/4443	Relationships with other classification places	G06F 9/451
H04N 21/4586	G06F 8/67	Limiting references	G06F 8/656

NOTES:

- The CRL tables above are used for changes to locations **outside** of the project scope. Changes to references in scheme titles or definitions **inside** the project scope will be reflected in the “scheme change” template or one of the “definition” templates.
- In addition to other changes proposed in the tables above, in the column titled “Referenced subclass or group to be changed,” **referenced** D symbols should indicate an action of “delete” or should indicate a replacement symbol and **referenced** F symbols should indicate a replacement symbol.
- When a reference is deleted, text related to that reference will also be deleted unless other references or a range of references associated with the same text remain.