EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1863

DATE: JANUARY 1, 2026

PROJECT MP12828

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

Action	Subclass	Group(s)
SCHEME:		
Titles Changed:	A63B	24/0075
	B04B	13/00
	B21B	37/24
	B21D	7/12
	B23B	39/08, 39/24
	B23H	7/20
	B23P	21/00
	B23Q	5/00
	B23Q	15/00
	B23Q	35/12
	B25J	9/00, 9/16
	B25J	13/00
	B30B	15/26
	B41J	11/44
	B41L	47/64
	B60L	15/22
	B66C	13/48
	D03C	2700/0127
	D04B	15/66
	D05B	3/00
	D05B	19/00
	D05B	21/00
	F02D	27/02
	F02D	28/00
	F15B	21/02
	F15C	1/02
	F23N	5/20, 5/22
	G01G	19/38
	G01R	31/10
	G05B	9/00
	G05B	19/00, 19/04, 19/0405, 19/063, 19/07, 19/102, 19/106, 19/18, 19/4068, 19/4083, 19/4093, 19/4155, 19/41835, 19/42, 19/4202
	G05B	23/00
	G05G	1/00
	G05G	21/00
	G06F	3/1298
	G06F	13/102, 13/105
	G06F	2015/761
	G06F	16/74
	G06V	20/635

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Action	Subclass	Group(s)
	G09B	7/04, 7/08, 7/12
	G10H	7/002
	G11B	20/1205, 20/1209, 20/1214, 20/1252
	H01H	43/00, 2043/107
	H01H	2231/016
	H01J	37/302, 37/3023
	H03J	2200/20, 2200/21, 2200/24
	H04N	21/242, 21/26241, 21/26283, 21/2747, 21/42209, 21/43074, 21/43078, 21/44218, 21/44222, 21/4583, 21/462, 21/482, 21/4826, 21/4828, 21/8133
	H04Q	3/545
	H04Q	11/023, 11/0407
	Y10S	40/901
	Y10S	242/01
	Y10S	348/911
Guidance Headings Modified:	D05C	3/00
DEFINITIONS:		
Definitions Modified:	B04B	13/00
	B23P	21/00
	B23Q	5/00
	B23Q	15/00
	B25J	9/16
	B25J	13/00
	D05B	3/00
	D05B	19/00
	D05B	21/00
	D06F	34/28
	F02D	28/00
	F15B	21/02
	G05B	9/00
	G05B	19/00, 19/0405
	G05B	23/00
	G05G	1/00
	G05G	21/00
	G06F	16/74
	H01H	43/00
	H04N	21/26241, 21/26283, 21/44222, 21/482, 21/4826, 21/8133

The following subclasses/groups are also impacted by this Notice of Changes (indicate subclasses/groups outside of the project scope, such as those listed in the CRL):

A47L 15/0018, A61F 2/50, B23Q 7/00, B23Q 23/00, C03B, D03D 47/369, D03D 51/00, D05C 5/00, E06B 9/56, F03G 7/06, F23N 5/00, G01P 7/00, G05B 11/00, G05B 13/00, G05B 17/00, G05B 19/06, G05B 19/4097, G05B 21/00, G05D 1/00, G05D 3/00, G06F, G06N 3/008, G06Q 10/00, G06Q 10/043, G06Q 50/02, G06V, G09G 1/04

This Notice of Changes includes the following *[Check the ones included]:*

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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)

1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS A63B - APPARATUS FOR PHYSICAL TRAINING, GYMNASTICS, SWIMMING, CLIMBING, OR FENCING; BALL GAMES; TRAINING EQUIPMENT

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	A63B24/0075	1	{Means for generating exercise programmes or schemes, e.g. computerized virtual trainer, e.g. using expert databases}	

SUBCLASS B04B – CENTRIFUGES

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	B04B13/00	0	Control arrangements specially designed for centrifuges; Program control of centrifuges (control arrangements for feed, charge or discharge B04B11/00)	

SUBCLASS B21B - ROLLING OF METAL

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	B21B37/24	2	Automatic variation of thickness according to a predetermined program	

SUBCLASS B21D - WORKING OR PROCESSING OF SHEET METAL OR METAL TUBES, RODS OR PROFILES WITHOUT ESSENTIALLY REMOVING MATERIAL; PUNCHING METAL

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	B21D7/12	1	with program control	

SUBCLASS B23B - TURNING; BORING

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	B23B39/08	2	Devices for program control	
M	B23B39/24	2	designed for program control	

SUBCLASS B23H - WORKING OF METAL BY THE ACTION OF A HIGH CONCENTRATION OF ELECTRIC CURRENT ON A WORKPIECE USING AN ELECTRODE WHICH TAKES THE PLACE OF A TOOL; SUCH WORKING COMBINED WITH OTHER FORMS OF WORKING OF METAL

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	B23H7/20	2	for program control, e.g. adaptive	

SUBCLASS B23P - METAL-WORKING NOT OTHERWISE PROVIDED FOR; COMBINED OPERATIONS; UNIVERSAL MACHINE TOOLS

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	B23P21/00	0	Machines for assembling a multiplicity of different parts to compose units, with or without preceding or subsequent working of such parts, e.g. with program control	

SUBCLASS B23Q - DETAILS, COMPONENTS, OR ACCESSORIES FOR MACHINE TOOLS, e.g. ARRANGEMENTS FOR COPYING OR CONTROLLING; MACHINE TOOLS IN GENERAL CHARACTERISED BY THE CONSTRUCTION OF PARTICULAR DETAILS OR COMPONENTS; COMBINATIONS OR ASSOCIATIONS OF METAL-WORKING MACHINES, NOT DIRECTED TO A PARTICULAR RESULT

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	B23Q5/00	0	Driving or feeding mechanisms; Control arrangements therefor (automatic control B23Q15/00; copying B23Q33/00, B23Q35/00; specially adapted for boring or drilling machines B23B39/10, B23B47/00 {; numerical program-control of machine tools G05B19/18})	
M	B23Q15/00	0	Automatic control or regulation of feed movement, cutting velocity or position of tool or work	
M	B23Q35/12	3	involving electrical means (program recording for copying purposes in a separate apparatus G05, G11)	

SUBCLASS B25J - MANIPULATORS; CHAMBERS PROVIDED WITH MANIPULATION DEVICES

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	B25J9/00	0	Program-controlled manipulators	
M	B25J9/16	1	Program controls (total factory control, i.e. centrally controlling a plurality of machines, G05B19/418)	
M	B25J13/00	0	Controls for manipulators (programme controls B25J9/16)	

SUBCLASS B30B - PRESSES IN GENERAL

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	B30B15/26	1	Program-control arrangements	

SUBCLASS B41J - TYPEWRITERS; SELECTIVE PRINTING MECHANISMS, i.e. MECHANISMS PRINTING OTHERWISE THAN FROM A FORME; CORRECTION OF TYPOGRAPHICAL ERRORS

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	B41J11/44	3	by devices, e.g. program tape or contact wheel, moved in correspondence with movement of paper-feeding devices, e.g. platen rotation	

SUBCLASS B41L - APPARATUS OR DEVICES FOR MANIFOLDING, DUPLICATING OR PRINTING FOR OFFICE OR OTHER COMMERCIAL PURPOSES; ADDRESSING MACHINES OR LIKE SERIES-PRINTING MACHINES

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	B41L47/64	3	Automatic selecting devices with or without overriding manual control, e.g. with scanning-fingers, with presetting controls operable by push-buttons or with program control by punched tapes	

SUBCLASS B60L - PROPULSION OF ELECTRICALLY-PROPELLED VEHICLES; SUPPLYING ELECTRIC POWER FOR AUXILIARY EQUIPMENT OF ELECTRICALLY-PROPELLED VEHICLES; ELECTRODYNAMIC BRAKE SYSTEMS FOR VEHICLES IN GENERAL; MAGNETIC SUSPENSION OR LEVITATION FOR VEHICLES; MONITORING OPERATING VARIABLES OF ELECTRICALLY-PROPELLED VEHICLES; ELECTRIC SAFETY DEVICES FOR ELECTRICALLY-PROPELLED VEHICLES

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	B60L15/22	2	with sequential operation of interdependent switches, e.g. relays, contactors or program drum	

SUBCLASS B66C - CRANES; LOAD-ENGAGING ELEMENTS OR DEVICES FOR CRANES, CAPSTANS, WINCHES, OR TACKLES

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	B66C13/48	2	Automatic control of crane drives for producing a single or repeated working cycle; Program control	

SUBCLASS D03C - SHEDDING MECHANISMS; PATTERN CARDS OR CHAINS; PUNCHING OF CARDS; DESIGNING PATTERNS

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	D03C2700/0127	2	Program-controlled heald frame movement	

SUBCLASS D04B – KNITTING

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	D04B15/66	1	Devices for determining or controlling patterns {; Program-control arrangements}	

SUBCLASS D05B - SEWING

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	D05B3/00	0	Sewing apparatus or machines with mechanism for lateral movement of the needle or the work or both for making ornamental pattern seams, for sewing buttonholes, for reinforcing openings or for fastening articles, e.g. buttons, by sewing (program-controlled sewing machines D05B19/00; with devices for automatically controlling movement of work-carrier D05B21/00)	
M	D05B19/00	0	Program-controlled sewing machines (with devices for automatically controlling movement of work-carrier D05B21/00; devices for stopping drive when sewing tools have reached a predetermined position D05B69/22)	
M	D05B21/00	0	Sewing machines with devices for automatically controlling movement of work-carrier relative to stitch-forming mechanism in order to obtain particular configuration of seam, e.g. program-controlled for sewing collars or for attaching pockets	

SUBCLASS F02D - CONTROLLING COMBUSTION ENGINES

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	F02D27/02	1	by performing a program	
M	F02D28/00	0	Program control of engines	

SUBCLASS F15B - SYSTEMS ACTING BY MEANS OF FLUIDS IN GENERAL; FLUID-PRESSURE ACTUATORS, e.g. SERVOMOTORS; DETAILS OF FLUID-PRESSURE SYSTEMS, NOT OTHERWISE PROVIDED FOR

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	F15B21/02	1	Servomotor systems with program control derived from a store or timing device; Control devices therefor	

SUBCLASS F15C - FLUID-CIRCUIT ELEMENTS PREDOMINANTLY USED FOR COMPUTING OR CONTROL PURPOSES

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	F15C1/02	1	Details {, e.g. special constructional devices for circuits with fluid elements, such as resistances, capacitive circuit elements; devices preventing reaction coupling in composite elements (servomotor systems adapted for maintaining constant speed F15B11/05); Switch boards; Program devices (hydraulic program control F15B21/02)}	

SUBCLASS F23N - REGULATING OR CONTROLLING COMBUSTION

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	F23N5/20	1	with a time program acting through electrical means, e.g. using time-delay relays	
M	F23N5/22	1	with a time program acting through mechanical means, e.g. using cams	

SUBCLASS G01G - WEIGHING

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	G01G19/38	2	program controlled, e.g. by perforated tape	

SUBCLASS G01R - MEASURING ELECTRIC VARIABLES; MEASURING MAGNETIC VARIABLES

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	G01R31/10	2	by increasing destruction at fault, e.g. burning-in by using a pulse generator operating a special program	

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

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	G05B9/00	0	Safety arrangements (G05B7/00 takes precedence; safety arrangements in program-control systems G05B19/048, G05B19/406)	
M	G05B19/00	0	Program-control systems	
M	G05B19/04	2	Program control other than numerical control, i.e. in sequence controllers or logic controllers (G05B19/418 takes precedence)	
M	G05B19/0405	3	{Program-control specially adapted for machine tool control and not otherwise provided for}	
M	G05B19/063	4	{for sequential program-control without delivering a reference value}	
M	G05B19/07	3	where the program is defined in the fixed connection of electrical elements, e.g. potentiometers, counters or transistors	
M	G05B19/102	4	{for input of program steps, i.e. setting up sequence}	

M	G05B19/106	4	{for selecting a program, variable or parameter}	
M	G05B19/18	2	Numerical control [NC], i.e. automatically operating machines, in particular machine tools, e.g. in a manufacturing environment, so as to execute positioning, movement or co-ordinated operations by means of program data in numerical form (G05B19/418 takes precedence)	
M	G05B19/4068	4	Verifying part program on screen, by drawing or other means	
M	G05B19/4083	4	{Adapting program, configuration}	
M	G05B19/4093	3	characterised by part programming, e.g. entry of geometrical information as taken from a technical drawing, combining this with machining and material information to obtain control information, named part program, for the NC machine	
M	G05B19/4155	3	characterised by program execution, i.e. part program or machine function execution, e.g. selection of a program	
M	G05B19/41835	3	{characterised by program execution}	
M	G05B19/42	2	Recording and playback systems, i.e. in which the program is recorded from a cycle of operations, e.g. the cycle of operations being manually controlled, after which this record is played back on the same machine	
M	G05B19/4202	3	{preparation of the program medium using a drawing, a model}	
M	G05B23/00	0	Testing or monitoring of control systems or parts thereof (monitoring of program-control systems G05B19/048, G05B19/406)	

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

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	G05G1/00	0	Controlling members, e.g. knobs or handles; Assemblies or arrangements thereof; Indicating position of controlling members (joysticks G05G9/04; steering wheels for motor vehicles B62D)	
M	G05G21/00	0	Mechanical apparatus for control of a series of operations, i.e. program control, e.g. involving a set of cams (G05G5/02 takes precedence)	

SUBCLASS G06F - ELECTRIC DIGITAL DATA PROCESSING

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	G06F3/1298	3	{Printer language recognition, e.g. program control language, page description language}	
M	G06F13/102	2	{where the program performs an interfacing function, e.g. device driver (G06F13/105 takes precedence; contention policies within device drivers G06F9/4881; scheduling within device drivers G06F9/52)}	
M	G06F13/105	2	{where the program performs an input/output emulation function}	
M	G06F2015/761	2	{Indexing scheme relating to architectures of general purpose stored program computers}	
M	G06F16/74	2	Browsing; Visualisation therefor (end-user interfaces for requesting or interacting with video content, e.g. video on demand interfaces or electronic programme guides, H04N21/472)	

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SUBCLASS G06V - IMAGE OR VIDEO RECOGNITION OR UNDERSTANDING

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	G06V20/635	3	{Overlay text, e.g. embedded captions in a TV programme}	

SUBCLASS G09B - EDUCATIONAL OR DEMONSTRATION APPLIANCES; APPLIANCES FOR TEACHING, OR COMMUNICATING WITH, THE BLIND, DEAF OR MUTE; MODELS; PLANETARIA; GLOBES; MAPS; DIAGRAMS

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	G09B7/04	2	characterised by modifying the teaching program in response to a wrong answer, e.g. repeating the question or supplying a further explanation	
M	G09B7/08	2	characterised by modifying the teaching program in response to a wrong answer, e.g. repeating the question or supplying further information	
M	G09B7/12	3	characterised by modifying the teaching program in response to a wrong answer, e.g. repeating the question or supplying further information	

SUBCLASS G10H - ELECTROPHONIC MUSICAL INSTRUMENTS; INSTRUMENTS IN WHICH THE TONES ARE GENERATED BY ELECTROMECHANICAL MEANS OR ELECTRONIC GENERATORS, OR IN WHICH THE TONES ARE SYNTHESISED FROM A DATA STORE

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	G10H7/002	1	{using a common processing for different operations or calculations, and a set of microinstructions, e.g. programs, to control the sequence thereof}	

SUBCLASS G11B - INFORMATION STORAGE BASED ON RELATIVE MOVEMENT BETWEEN RECORD CARRIER AND TRANSDUCER

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	G11B20/1205	5	{for discontinuous data, e.g. digital information signals or computer program data}	
M	G11B20/1209	5	{for discontinuous data, e.g. digital information signals or computer program data}	
M	G11B20/1214	5	{for discontinuous data, e.g. digital information signals or computer program data}	
M	G11B20/1252	4	{for discontinuous data, e.g. digital information signals or computer program data}	

SUBCLASS H01H - ELECTRIC SWITCHES; RELAYS; SELECTORS; EMERGENCY PROTECTIVE DEVICES

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	H01H43/00	0	Time or time-programme switches providing a choice of time-intervals for executing one or more switching actions and automatically terminating their operation after the programme is completed	
M	H01H2043/107	3	{Bidirectional selecting means, e.g. the programme selecting knob being turnable in both directions}	
M	H01H2231/016	1	Control panel; Graphic display; Program control	

SUBCLASS H01J - ELECTRIC DISCHARGE TUBES OR DISCHARGE LAMPS

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	H01J37/302	2	Controlling tubes by external information, e.g. program control (H01J37/304 takes precedence)	
M	H01J37/3023	3	{Program control}	

SUBCLASS H03J - TUNING RESONANT CIRCUITS; SELECTING RESONANT CIRCUITS

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	H03J2200/20	1	Radio receiver with possibility to choose a station with a certain programme style	
M	H03J2200/21	1	Television receiver with possibility to choose a station with a certain programme style	
M	H03J2200/24	1	Remote control device with display showing programme content	

SUBCLASS H04N - PICTORIAL COMMUNICATION, e.g. TELEVISION

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	H04N21/242	3	Synchronisation processes, e.g. processing of PCR [Programme Clock References] {(arrangements for synchronising broadcast or distribution via plural systems in broadcast distribution systems H04H20/18)}	
M	H04N21/26241	5	{involving the time of distribution, e.g. the best time of the day for inserting an advertisement or airing a children programme}	
M	H04N21/26283	4	{for associating distribution time parameters to content, e.g. to generate electronic programme guide data}	

M	H04N21/2747	4	Remote storage of video programmes received via the downstream path, e.g. from the server	
M	H04N21/42209	7	{for displaying non-command information, e.g. electronic programme guide [EPG], e-mail, messages or a second television channel}	
M	H04N21/43074	5	{of additional data with content streams on the same device, e.g. of EPG data or interactive icon with a TV programme}	
M	H04N21/43078	5	{for seamlessly watching content streams when changing device, e.g. when watching the same programme sequentially on a TV and then on a tablet}	
M	H04N21/44218	5	{Detecting physical presence or behaviour of the user, e.g. using sensors to detect if the user is leaving the room or changes his face expression during a TV programme (methods or arrangements for recognising human body or animal bodies or body parts G06V40/10; methods or arrangements for acquiring or recognising human faces, facial parts, facial sketches, facial expressions G06V40/16; methods or arrangements for recognising movements or behaviour G06V40/20; arrangements for identifying users in broadcast systems H04H60/45)}	
M	H04N21/44222	5	{Analytics of user selections, e.g. selection of programmes or purchase activity (monitoring of user selections in data processing systems G06F11/34; arrangements for monitoring the user's behaviour or opinions in broadcast systems H04H60/33)}	
M	H04N21/4583	4	{Automatically resolving scheduling conflicts, e.g. when a recording by reservation has been programmed for two programmes in the same time slot}	
M	H04N21/462	3	Content or additional data management e.g. creating a master electronic programme guide from data received from the Internet and a Head-end or controlling the complexity of a video stream by scaling the resolution or bit-rate based on the client capabilities	
M	H04N21/482	3	End-user interface for programme selection	
M	H04N21/4826	4	{using recommendation lists, e.g. of programmes or channels sorted out according to their score}	
M	H04N21/4828	4	{for searching programme descriptors (retrieval of video data G06F16/739)}	

| M | H04N21/8133 | 4 | {specifically related to the content, e.g. biography of the actors in a movie, detailed information about an article seen in a video programme} | |

SUBCLASS H04Q - SELECTING

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	H04Q3/545	3	using a stored program	
M	H04Q11/023	2	{using a stored program control}	
M	H04Q11/0407	2	{using a stored program control}	

SUBCLASS Y10S - TECHNICAL SUBJECTS COVERED BY FORMER USPC CROSS-REFERENCE ART COLLECTIONS [XRACs] AND DIGESTS

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	Y10S40/901	1	Tv/radio programme indicator	
M	Y10S242/01	1	Tape programme control means	
M	Y10S348/911	1	Line doubler adapted for reproducing programme originally from film, e.g. 24 frames per second	

*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 finalization 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.

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

SUBCLASS D05C - EMBROIDERING; TUFTING

Type*	Location	Old Guidance Heading	New/Modified Guidance Heading
M	D05C3/00 – D05C13/00	Embroidering machines ({embroidering attachments for sewing machines D05B 3/243}; programme-controlled sewing machines with embroidering capability D05B 19/00, D05B 21/00)	Embroidering machines

*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."

2. A. DEFINITIONS (modified)

B04B13/00

References

Limiting references

Delete: The following row from the existing Limiting references table.

Control arrangements for safety devices like door and lid locking devices	B04B7/06

Insert: The following new Informative references section.

Informative references

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

Control arrangements for safety devices like door and lid locking devices	B04B7/06

B23P21/00

References

Delete: The entire Limiting references section.

Insert: The following new Informative references section.

Informative references

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

Designing, manufacturing, e.g. assembling, facilitating disassembly or structurally modifying motor vehicles or trailers, not otherwise provided for	B62D65/00
Total factory control, i.e. centrally controlling a plurality of machines, e.g. direct or distributed numerical control [DNC], flexible manufacturing systems [FMS], integrated manufacturing systems [IMS], computer integrated manufacturing [CIM]	G05B19/418
Apparatus or processes specially adapted for manufacturing or adjusting assemblages of electric components	H05K13/00

B23Q5/00

References

Limiting references

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

Automatic control or regulation of feed movement, cutting velocity or position of tool or work	B23Q15/00
Methods for copying	B23Q33/00
Control systems or devices for copying directly from a pattern or a master model; Devices for use in copying manually	B23Q35/00
Boring or drilling machines or devices characterised by the drive, e.g. by fluid-pressure drive, pneumatic power drive	B23B39/10
Constructional features of components specially designed for boring or drilling machines; Accessories therefor	B23B47/00
Numerical control [NC], i.e. automatically operating machines, in particular machine tools, e.g. in a manufacturing environment, so as to execute positioning, movement or co-ordinated operations by means of program data in numerical form	G05B19/18

Informative references

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

Vibratory toolholders	B23B29/125
Ultrasonic boring	B23B37/00
Gearings, speed selectors for power driven hand tools	B25F5/001
Ultrasonic cutting of gems, jewels	B28D5/047
General features of fluid pressure drives accelerating or decelerating the stroke	F15B15/02
General mechanisms or mechanical components not specific to a machine tool	F16H
General mechanical drives with varying speed ratio	F16H3/00
Cam or ballscrew mechanisms as such	F16H25/00
Linear motors as such	H02K41/00

B23Q15/00

References

Delete: The entire Limiting references section.

Insert: The following new Informative references section.

Informative references

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

Control of manipulators	B25J9/16
Microprocessor control of machines	G05B19/042
Numerical control of machine-tools	G05B19/18

B25J9/16

<u>Insert</u>: The following new Limiting references section.

References

Limiting references

This place does not cover:

Total factory control, i.e. centrally controlling a plurality of machines, e.g. direct or distributed numerical control [DNC], flexible manufacturing systems [FMS], integrated manufacturing systems [IMS] or computer integrated manufacturing [CIM]	G05B19/418

<u>Insert</u>: The following new Informative references section.

Informative references

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

Recording and playback systems, i.e. in which the programme is recorded from a cycle of operations, e.g. the cycle of operations being manually controlled, after which this record is played back on the same machine	G05B19/42

B25J13/00

<u>Insert</u>: The following new Limiting references section.

References

Limiting references

This place does not cover:

Program controls for manipulators	B25J9/16

Insert: The following new Informative references section.

Informative references

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

Control in general	G05

D05B3/00

References

Limiting references

Delete: The "me" at the end of "programme" in the first row of the existing Limiting references table, so that the updated row appears as follows.

Sewing machines characterised by the program control for lateral movement of the needle or the work or both	D05B19/00

D05B19/00

Definition statement

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

Program-controlled sewing machines, i.e. machines using computer means.

References

Limiting references

Delete: The "me" at the end of "programme" in the two rows of the existing Limiting references table, so that the updated table appears as follows.

Program-controlled sewing machines with devices for automatically controlling movement of work-carrier relative to stitch-forming mechanism in order to obtain particular configuration of seam	D05B21/00
Program-controlled devices for stopping drive when sewing tools have reached a predetermined position	D05B69/22

D05B21/00

Definition statement

Delete: The "me" at the end of "programme" in the existing Definition statement, so that the updated statement appears as follows.

Sewing machines with devices for automatically controlling movement of work-carrier relative to stitch-forming mechanism in order to obtain particular configuration of seam, e.g. program-controlled for sewing collars, for attaching pockets, bar tacking.

D06F34/28

Definition statement

Replace: The word "program" with "programme" in the first paragraph of the existing Definition statement, so that the updated first paragraph appears as follows.

Details of control systems for washer-dryers or laundry dryers, relating to arrangements for programme selection and/or visualization.

References

Informative references

Replace: The text in the following <u>two</u> rows of the existing Informative references table with the following updated text.

Electric program-control systems in general	G05B19/02
Electric program-control systems using selector switches	G05B19/10

F02D 28/00

Definition statement

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

Program-control of engines. Although operator control is suitable for automobile engines, there are many systems, such as standby emergency electric power systems, where this type of control is impractical and expensive. For these applications, automatic program control systems have been devised which perform necessary engine control functions without operator attendance. Program-control is also used in remote starting systems for automobile engines for example heating up the passenger cabin.

References

Informative references

Replace: The text in the following <u>one</u> row of the existing Informative references table with the following updated text.

Program-control in general	G05B19/00

F15B21/02

References

Informative references

Delete: The "me" in the two instances of "programme" in the existing Informative references table, so that the updated table appears as follows.

Servomotor systems with electrically operated control means	F15B21/08
Program control in washing machines	D06F33/04
Program control in general	G05B19/00

G05B9/00

References

Limiting references

Delete: The "me" in "programme" in the second row of the existing Limiting references table, so that the updated text appears as follows.

Safety arrangements in program-control systems	G05B19/048, G05B19/406

Informative references

Delete: The "me" in the two instances of "programme" in the existing Informative references table, so that the updated table appears as follows. And replace the parentheses around the acronym with square brackets.

Safety arrangements in program-control systems other than numerical control	G05B19/0428
Safety arrangements in program-control systems using programmable logic controllers [PLC]	G05B19/058

G05B19/00

Definition statement

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

Program control in sequence or logic controllers, e.g. simulating logic interconnections of signals according to ladder diagrams or function charts.

Program control in controllers using digital processors, or using logic state machines, or using cams, discs, rods, drums, or where the program is defined in the fixed connection of electrical elements, e.g. potentiometers, counters, transistors, or using plugboards, cross-bar distributors, matrix switches, or using selector switches or using record carriers.

Numerical control [NC], i.e. automatically operating machines, in particular machine tools, e.g. in a manufacturing environment, so as to execute positioning, movement or co-ordinated operations by means of program data in numerical form

Total factory control, i.e. centrally controlling a plurality of machines, e.g. direct or distributed numerical control [DNC], flexible manufacturing systems [FMS], integrated manufacturing systems [IMS], computer integrated manufacturing [CIM]

Recording and playback systems, i.e. in which the program is recorded from a cycle of operations, e.g. the cycle of operations being manually controlled, after which this record is played back on the same machine

G05B19/0405

References

References out of a residual place

Replace: The existing References out of a residual place table with the following updated table.

Program control using cams, discs, rods, drums or the like	G05B19/06

Program control where the program is defined in the fixed connection of electrical elements, e.g. potentiometers, counters, transistors	G05B19/07
Program control using plugboards, cross-bar distributors, matrix switches or the like	G05B19/08
Program control using selector switches	G05B19/10
Program control using record carriers	G05B19/12
Program control using punched cards or tapes	G05B19/14
Program control using magnetic record carriers	G05B19/16
Arrangements for machine tools, e.g. for copying or controlling	B23Q

G05B23/00

References

Limiting references

Delete: The "me" in the instance of "programme" in the existing Limiting references table, so that the updated table appears as follows.

Monitoring of program-control systems	G05B19/048, G05B19/406

G05G1/00

References

Limiting references

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

Joysticks	G05G9/04
Steering wheels for motor vehicles	B62D

Application-oriented references

Replace: The existing Application-oriented references table with the following updated table.

Control mechanisms, e.g. control levers for dredgers or soil-shifting machines	E02F9/2004

Informative references

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

Means for preventing, limiting or returning the movements of parts of a control mechanism	G05G5/00
Providing feel, e.g. means to create a counterforce	G05G5/03
Specially for program control	G05G21/00
Vibration damping	G05G25/02

G05G21/00

References

Limiting references

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

Means preventing undesired movements of a controlling member which can be moved in two or more separate steps or ways, e.g. restricting to a stepwise movement or to a particular sequence of movements	G05G5/02

Insert: The following new Informative references section.

Informative references

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

Program-control systems using cams, discs, rods, drums or the like	G05B19/06
Time or time-programme switches executing one or more switching actions	H01H43/00

Special rules of classification

Delete: The "me" in the word "programme" in the second paragraph of the existing Special rules text, so that the updated section appears as follows.

This group is not active

The subject matter 'Mechanical program control for controlling series of operation' should be classified in the respective fields of application.

G06F 16/74

References

Limiting references

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

End-user interface for requesting or interacting with video content, e.g. video on demand interface or electronic programme guides	H04N21/472

H01H 43/00

References

Informative references

Delete: The "me" in the word "programme" in the following row of the existing Informative references table, so that the updated text appears as follows.

Program-control systems	G05B19/00

H04N21/26241

Definition statement

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

Pertains to the time of the day or week, for example, the best time of the day for inserting a commercial or airing a programme suitable for children.

H04N 21/26283

Definition statement

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

Metadata, such as programme descriptors is received from the content provider, which itself is not aware of a transmission schedule. Therefore, the creation of the EPG data consisting of metadata and time information is performed by the scheduler. The EPG user interface for programme selection by the user is classified elsewhere.

H04N 21/44222

Definition statement

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

User selections using, for example, a remote control are monitored. It covers the selection of programmes, duration of viewing, purchase activity, setting reminders answers to quiz, questionnaires, advertisements. A log file is generated. Covers clickstream.

H04N 21/482

Definition statement

Insert: The "me" to the word "Program" in the existing Definition statement, so that the updated statement appears as follows.

Selection menus allowing the user to select actively a piece of content from a plurality, e.g. a function provided by an Electronic Programme Guide.

References

Delete: The entire Limiting references section.

Insert: The following new Informative references section.

Informative references

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

Broadcast systems using EPGs	H04H60/72

H04N21/4826

Definition statement

Insert: The "me" to the word "program" in the last sentence of the existing
              Definition statement, so that the updated statement appears as follows.

A recommendation list of desirable items has been compiled by the agent
module and is displayed to the user. It is mostly an ordered list, where items are
sorted out according to their score, which may be also displayed next to the item
descriptor. Items can be programmes or channels.

H04N21/8133

Definition statement

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

Additional data that are related to the multimedia content, e.g. biography of the
actors in a movie, detailed information about an article seen in a video
programme, but no programme descriptors, in the sense of metadata.

5. CROSS-REFERENCE LIST (CRL)

Definitions references impacted by this revision project

Location of reference to be changed	Referenced subclass or group to be changed	Section of definition	Action; New reference symbol; New text
A47L 15/0018	G05B 19/00	Informative references	Replace "Programme-control" with "Program-control"
A61F 2/50	B25J 9/00	Informative references	Replace "Programme-controlled" with "Program-controlled"
B23Q 7/00	B25J 9/00	Limiting references	Replace "Programme-controlled" with "Program-controlled"
B23Q 23/00	G05B 19/00	Informative references	Replace "Programme control" with "Program control"
C03B	G05B 19/00	Informative references	Replace "Programme-control" with "Program-control"
D03D 47/369	G05B 19/00	Informative references	Replace "Programme-control" with "Program-control"
D03D 51/00	G05B 19/00	Informative references	Replace "Programme-control" with "Program-control"
D05C 5/00	D05B 19/00	Informative references	Replace "Programme-controlled" with "Program-controlled"
E06B 9/56	G05B 19/00	Informative references	Replace "Programme-control" with "Program-control"
F03G 7/06	B25J 9/00	Informative references	Replace "Programme-controlled" with "Program-controlled"
F23N 5/00	F23N 5/20	Informative references	Replace "programme" with "program"
F23N 5/00	F23N 5/22	Informative references	Replace "programme" with "program"
G01P 7/00	G05B 19/00	Application-oriented references	Replace "Programme-control" with "Program-control"
G05B 11/00	G05B 19/00	Informative references	Replace "Programme-control" with "Program-control"
G05B 13/00	G05B 19/00	Limiting references	Replace "Programme-control" with "Program-control"

Location of reference to be changed	Referenced subclass or group to be changed	Section of definition	Action; New reference symbol; New text
G05B 17/00	G05B 19/00	Limiting references	Replace "Programme-control" with "Program-control"
G05B 19/06	G05G 21/00	Informative references	Replace "programme-control" with "program-control"
G05B 19/4097	G05B 19/4093	Limiting references	Replace "programme" with "program"
G05B 21/00	G05B 19/00	Limiting references	Replace "Programme-control" with "Program-control"
G05D 1/00	B25J 9/00	Informative references	Replace "Programme-controlled" with "Program-controlled"
G05D 3/00	B25J 9/00	Informative references	Replace "Programme-controlled" with "Program-controlled"
G06F	G05B 19/00	Informative references	Replace "Programme-control" with "Program-control"
G06N 3/008	B25J 9/00	Application-oriented references	Replace "Programme-controlled" with "Program-controlled"
G06Q 10/00	G05B 19/00	Informative references	Replace "Programme-control" with "Program-control"
G06Q 10/043	G05B 19/18	Informative references	Replace "Programme-control" with "Program-control"
G06Q 50/02	G05B 19/00	Informative references	Replace "Programme-control" with "Program-control"
G06V	B25J 9/00	Informative references	Replace "Programme-controlled" with "Program-controlled"
G09G 1/04	H01J 37/302	Informative references	Replace "programme" with "program"

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.