

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
<b>SCHEME:</b>		
Symbols Deleted:	H05B	33/0803, 33/0806, 33/0809, 33/0812, 33/0815, 33/0818, 33/0821, 33/0824, 33/0827, 33/083, 33/0842, 33/0845, 33/0848, 33/0851, 33/0854, 33/0857, 33/086, 33/0863, 33/0866, 33/0869, 33/0872, 33/0884, 33/0887, 33/089, 33/0893, 33/0896
	H05B	37/00, 37/02, 37/0209, 37/0218, 37/0227, 37/0236, 37/0245, 37/0254, 37/0263, 37/0272, 37/0281, 37/029, 37/03, 37/032, 37/034, 37/036, 37/038, 37/04
	H05B	43/00, 43/02
Symbols New:	H05B	45/00, 45/10, 45/12, 45/14, 45/18, 45/20, 45/22, 45/24, 45/28, 45/30, 45/305, 45/31, 45/315, 45/32, 45/325, 45/327, 45/33, 45/335, 45/34, 45/345, 45/347, 45/35, 45/355, 45/357, 45/3574, 45/3575, 45/3577, 45/3578, 45/36, 45/37, 45/3725, 45/375, 45/38, 45/382, 45/385, 45/39, 45/392, 45/395, 45/397, 45/40, 45/42, 45/44, 45/46, 45/48, 45/50, 45/52, 45/54, 45/56, 45/58, 45/60
	H05B	46/00
	H05B	47/00, 47/10, 47/105, 47/11, 47/115, 47/12, 47/125, 47/13, 47/135, 47/14, 47/155, 47/16, 47/165, 47/17, 47/175, 47/18, 47/185, 47/19, 47/195, 47/20, 47/21, 47/22, 47/23, 47/235, 47/24, 47/25, 47/26, 47/28, 47/29
Titles Changed:	G05F	subclass
	H05B	subclass
	H05B	6/00
	H05B	7/00, 7/11, 7/144
	H05B	31/00
	H05B	33/00, 33/08
	H05B	39/00, 39/04
	H05B	41/00, 41/04, 41/30, 41/36, 41/44, 41/46
Warnings New:	H05B	33/08
	H05B	45/00, 45/10, 45/12, 45/18, 45/20, 45/28, 45/30, 45/305, 45/31, 45/315, 45/32, 45/325, 45/327, 45/33, 45/335, 45/34, 45/345, 45/347, 45/35, 45/355, 45/357, 45/3574, 45/3575, 45/3577, H05B 45/3578, 45/36, 45/37, 45/3725, 45/375, 45/38, 45/382, 45/385, 45/39, 45/392, 45/395, 45/397, 45/40, 45/42, 45/50, 45/52, 45/54, 45/56
	H05B	47/00, 47/10, 47/105, 47/11, 47/115, 47/12, 47/125, 47/13, 47/135, 47/14, 47/155, 47/16, 47/165, 47/17, 47/175,

CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
		47/18, 47/185, 47/19, 47/195, 47/20, 47/21, 47/22, 47/23, 47/235, 47/24, 47/25, 47/26, 47/28, 47/29
Notes New:	H05B	45/00
	H05B	47/00
Notes Modified:	H	section
	H05B	subclass
<b>DEFINITIONS:</b>		
Definitions Deleted:	H05B	33/0824, 33/0827, 33/083, 33/0842
	H05B	37/00
	H05B	43/00
Definitions New:	H05B	39/04
	H05B	41/04, 41/30
	H05B	45/00, 45/44, 45/46, 45/48
	H05B	47/00
Definitions Modified:		
	H05B	subclass
	H05B	6/00
	H05B	7/00
	H05B	31/00
	H05B	33/00, 33/08
	H05B	35/00
	H05B	39/00
	H05B	41/00

**The following subclasses/groups are also impacted by this Notice of Changes:** A41D, A41G, A63J, B60Q, B61L, F21K, F21V, F25D, G01J, G02B, G02F, G03B, G05B, G05D, G05F, G08B, G08C, G08G, G09G, H01L, H02H, H02J, H04L, 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)

CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

- 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)

CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

**SUBCLASS G05F – SYSTEMS FOR REGULATING ELECTRIC OR MAGNETIC VARIABLES**

(regulating the timing or recurrence frequency of pulses in radar or radio navigation systems G01S; closed loop systems for regulating non-electric variables by electric means G05D; regulating power supply of digital computers G06F 1/26; regulating electric power distribution networks H02J; regulating the charging of batteries H02J 7/00; regulation of the output of static converters, e.g. switching regulators H02M; regulation of the output of electric generators H02N, H02P 9/00, H03L; controlling transformers, reactors or choke coils H02P 13/00; regulating frequency response, gain, maximum output, amplitude or bandwidth of amplifiers H03G; regulating tuning of resonant circuits H03J; regulating characteristics of transmission lines H04B; electric control of X-ray apparatus H05G 1/30)

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of dots</u> <u>(e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in</u> <u>{curly brackets}**</u>	<u>Transferred to#</u>
M	G05F	subclass	SYSTEMS FOR REGULATING ELECTRIC OR MAGNETIC VARIABLES (regulating the timing or recurrence frequency of pulses in radar or radio navigation systems G01S; regulation of current or voltage, specially adapted for use in electronic time-pieces G04G 19/02; closed-loop systems for regulating non-electric variables by electric means G05D; regulating power supply of digital computers G06F1/26; for obtaining desired operating characteristics of electromagnets with armatures H01F 7/18; regulating electric power distribution networks H02J; regulating the charging of batteries H02J7/00; regulation of the output of static converters, e.g. switching regulators H02M; regulation of the output of electric generators H02N, H02P9/00; controlling transformers, reactors or choke coils H02P13/00; regulating frequency response, gain, maximum output, amplitude or bandwidth of amplifiers H03G; regulating tuning of resonant circuits H03J; regulating characteristics of transmission lines H04B; controlling electric light sources H05B 39/04, H05B 41/36, H05B 45/10, H05B 45/20, H05B 47/10; electric control of X-ray apparatus H05G1/30)	

## CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

**SUBCLASS H05B – ELECTRIC HEATING; ELECTRIC LIGHTING NOT OTHERWISE PROVIDED FOR** (apparatus for special application, see the relevant places, e.g. A47J, C21, C22, C23, F21, F24, F27)

<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	H05B	subclass	ELECTRIC HEATING; ELECTRIC LIGHTING NOT OTHERWISE PROVIDED FOR	
M	H05B 6/00	0	Heating by electric, magnetic, or electromagnetic fields (radiation therapy using microwaves A61N5/02)	
M	H05B 7/00	0	Heating by electric discharge (plasma torches H05H 1/26)	
M	H05B 7/11	2	Arrangements for conducting current to the electrode terminals	
M	H05B 7/144	2	Power supplies specially adapted for heating by electric discharge; Automatic control of power, e.g. by positioning of electrodes	
M	H05B 31/00	0	Electric arc lamps (regulating electric characteristics of arcs G05F1/02)	
M	H05B 33/00	0	Electroluminescent light sources	
C	H05B 33/08	2	Circuit arrangements for operating electroluminescent light sources (for operating light emitting diodes H05B 45/00)	H05B 33/08, H05B 45/00
D	H05B 33/0803	3	{for light emitting diodes [LEDs] comprising only inorganic semiconductor materials}	<administrative transfer to H05B 45/00>
D	H05B 33/0806	4	{Structural details of the circuit}	<administrative transfer to H05B 45/00>
D	H05B 33/0809	5	{in the conversion stage}	<administrative transfer to H05B 45/37>
D	H05B 33/0812	6	{with a controlled linear regulator}	<administrative transfer to H05B 45/395>
D	H05B 33/0815	6	{with a controlled switching regulator}	<administrative transfer to H05B 45/37>
D	H05B 33/0818	7	{wherein HF AC or pulses are generated in the final stage}	<administrative transfer to H05B 45/37>
D	H05B 33/0821	5	{in the load stage}	<administrative transfer to H05B 45/40>
D	H05B 33/0824	6	{with an active control inside the LED load configuration}	<administrative transfer to H05B 45/44>
D	H05B 33/0827	7	{organized essentially in parallel configuration}	<administrative transfer to H05B 45/46>
D	H05B 33/083	7	{organized essentially in string configuration with shunting switches}	<administrative transfer to H05B 45/48>
D	H05B 33/0842	4	{with control (H05B33/0884 takes precedence)}	<administrative transfer to H05B 45/00>
D	H05B 33/0845	5	{of the light intensity (H05B33/0857 takes precedence)}	<administrative transfer to H05B 45/10>

## CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

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D	H05B 33/0848	6	{involving load characteristic sensing means}	<administrative transfer to H05B 45/14>
D	H05B 33/0851	7	{with permanent feedback from the light source}	<administrative transfer to H05B 45/10>
D	H05B 33/0854	6	{involving load external environment sensing means}	<administrative transfer to H05B 45/10>
D	H05B 33/0857	5	{of the color point of the light}	<administrative transfer to H05B 45/20>
D	H05B 33/086	6	{involving set point control means}	<administrative transfer to H05B 45/20>
D	H05B 33/0863	7	{by user interfaces}	<administrative transfer to H05B 45/20>
D	H05B 33/0866	6	{involving load characteristic sensing means}	<administrative transfer to H05B 45/24>
D	H05B 33/0869	7	{optical sensing means}	<administrative transfer to H05B 45/22>
D	H05B 33/0872	6	{involving load external environment sensing means}	<administrative transfer to H05B 45/20>
D	H05B 33/0884	4	{with monitoring or protection}	<administrative transfer to H05B 45/50>
D	H05B 33/0887	5	{of the conversion stage}	<administrative transfer to H05B 45/50>
D	H05B 33/089	5	{of the load stage}	<administrative transfer to H05B 45/50>
D	H05B 33/0893	6	{involving end of life detection of LEDs}	<administrative transfer to H05B 45/58>
D	H05B 33/0896	3	{for light emitting diodes [LEDs] comprising organic materials, e.g. polymer LEDs [PLEDs] or organic LEDs [OLEDs]}	<administrative transfer to H05B 45/60>
D	H05B 37/00	0	Circuit arrangements for electric light sources in general {(vehicle lights B60L1/14, B60Q; railways light signals B61L; lighting for photographic purposes G03B15/02, for advertising purposes G09F)}	<administrative transfer to H05B 47/00>
D	H05B 37/02	1	Controlling ({apparatus for performing colour music A63J17/00; regulating light by electrical means without regulating the light source itself G05D25/00}; regulating voltage or current G05F; {illuminated switch circuits G08B, G08C, H02B15/00; traffic signals G08G1/00})	<administrative transfer to H05B 47/10>
D	H05B 37/0209	2	{the instant of the ignition or of the extinction (H05B37/029 takes precedence; light or sound activated electronic switches H03K17/94)}	<administrative transfer to H05B 47/10>
D	H05B 37/0218	3	{by the ambient light}	<administrative transfer to H05B 47/11>

## CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

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D	H05B 37/0227	3	{by detection only of parameters other than ambient light, e.g. by sound detectors, by passive infra-red detectors}	<administrative Transfer to H05B 47/105>
D	H05B 37/0236	4	{by detection of audible sound}	<administrative Transfer to H05B 47/12>
D	H05B 37/0245	3	{by remote-control involving emission and detection units}	<administrative Transfer to H05B 47/175>
D	H05B 37/0254	4	{linked via data bus transmission}	<administrative Transfer to H05B 47/18>
D	H05B 37/0263	4	{linked via power line carrier transmission}	<administrative Transfer to H05B 47/185>
D	H05B 37/0272	4	{linked via wireless transmission, e.g. IR transmission}	<administrative Transfer to H05B 47/19>
D	H05B 37/0281	3	{by timing means (H05B37/0245 takes precedence; time-controlled switching in general G04, H01H, H03K)}	<administrative Transfer to H05B 47/16>
D	H05B 37/029	2	{a plurality of lamps following a preassigned sequence, e.g. theater lights, diapositive projector}	<administrative Transfer to H05B 47/155>
D	H05B 37/03	1	Detecting lamp failure {(monitoring vehicle lamps B60Q11/00; changing to a reserve source of current H02J9/00)}	<administrative Transfer to H05B 47/20>
D	H05B 37/032	2	{of a plurality of lamps connected in parallel}	<administrative Transfer to H05B 47/21>
D	H05B 37/034	3	{with communication between the lamps and a central unit}	<administrative Transfer to H05B 47/22>
D	H05B 37/036	2	{of a plurality of lamps connected in series}	<administrative Transfer to H05B 47/23>
D	H05B 37/038	3	{with communication between the lamps and a central unit}	<administrative transfer to H05B 47/235>
D	H05B 37/04	2	Circuits providing for substitution of the light source in case of its failure {, e.g. by switching over to a reserve light source (incandescent lamps with reserve body H01K)}	<administrative Transfer to H05B 47/29>
M	H05B 39/00	0	Circuit arrangements or apparatus for operating incandescent light sources	
M	H05B 39/04	1	Controlling	
M	H05B 41/00	0	Circuit arrangements or apparatus for igniting or operating discharge lamps	
M	H05B 41/04	2	Starting switches	
M	H05B 41/30	2	in which the lamp is fed by pulses, e.g. flash lamp	
M	H05B 41/36	2	Controlling	
M	H05B 41/44	3	for providing special optical effects, e.g. progressive motion of light	

## CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

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M	H05B 41/46	2	Circuits providing for substitution in case of failure of the lamp	
D	H05B 43/00	0	Circuit arrangements for light sources, not otherwise provided for (H05B37/00 takes precedence)	<administrative transfer to H05B 47/00>
D	H05B 43/02	1	for light sources using a charge of combustible material {, e.g. magnesium lamps}	<administrative transfer to H05B 46/00>
Q	H05B 45/00	0	Circuit arrangements for operating light emitting diodes [LED]	H05B 45/00, H05B 45/30, H05B 45/305, H05B 45/31, H05B 45/315, H05B 45/32, H05B 45/325, H05B 45/327, H05B 45/33, H05B 45/335, H05B 45/34, H05B 45/345, H05B 45/347, H05B 45/35, H05B 45/355, H05B 45/357, H05B 45/3574, H05B 45/3575, H05B 45/3577, H05B 45/3578, H05B 45/36, H05B 45/37, H05B 45/3725, H05B 45/375, H05B 45/38, H05B 45/382, H05B 45/385, H05B 45/39, H05B 45/392, H05B 45/395, H05B 45/397
Q	H05B 45/10	1	Controlling the intensity of the light	H05B 45/10, H05B 45/12, H05B 45/18
N	H05B 45/12	2	using optical feedback	
N	H05B 45/14	2	using electrical feedback from LEDs or from LED modules	
N	H05B 45/18	2	using temperature feedback	
Q	H05B 45/20	1	Controlling the colour of the light	H05B 45/20, H05B 45/28



CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

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N	H05B 45/22	2	using optical feedback	
N	H05B 45/24	2	using electrical feedback from LEDs or from LED modules	
N	H05B 45/28	2	using temperature feedback	
N	H05B 45/30	1	Driver circuits	
N	H05B 45/305	2	Frequency-control circuits	
N	H05B 45/31	2	Phase-control circuits	
N	H05B 45/315	3	Reverse phase-control circuits	
N	H05B 45/32	2	Pulse-control circuits	
N	H05B 45/325	3	Pulse-width modulation [PWM]	
N	H05B 45/327	3	Burst dimming	
N	H05B 45/33	3	Pulse-amplitude modulation [PAM]	
N	H05B 45/335	3	Pulse-frequency modulation [PFM]	
N	H05B 45/34	2	Voltage stabilisation; Maintaining constant voltage	
N	H05B 45/345	2	Current stabilisation; Maintaining constant current	
N	H05B 45/347	2	Dynamic headroom control [DHC]	
N	H05B 45/35	2	Balancing circuits	
N	H05B 45/355	2	Power factor correction [PFC]; Reactive power compensation	
N	H05B 45/357	2	specially adapted for retrofit LED light sources	
N	H05B 45/3574	3	Emulating the electrical or functional characteristics of incandescent lamps	
N	H05B 45/3575	4	by means of dummy loads or bleeder circuits, e.g. for dimmers	
N	H05B 45/3577	4	Emulating the dimming characteristics, brightness or colour temperature of incandescent lamps	
N	H05B 45/3578	3	Emulating the electrical or functional characteristics of discharge lamps	
N	H05B 45/36	2	Circuits for reducing harmonics, ripples or electromagnetic interferences [EMI]	
Q	H05B 45/37	2	Converter circuits	H05B 45/37, H05B 45/3725, H05B 45/375, H05B 45/38, H05B 45/382, H05B 45/385, H05B 45/39, H05B 45/392
N	H05B 45/3725	3	Switched mode power supply [SMPS]	
N	H05B 45/375	4	using buck topology	
N	H05B 45/38	4	using boost topology	
N	H05B 45/382	4	with galvanic isolation between input and output	

CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

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N	H05B 45/385	4	using flyback topology	
N	H05B 45/39	4	Circuits containing inverter bridges	
N	H05B 45/392	4	wherein the LEDs are placed as freewheeling diodes at the secondary side of an isolation transformer	
Q	H05B 45/395	2	Linear regulators	H05B 45/395, H05B 45/397
N	H05B 45/397	3	Current mirror circuits	
Q	H05B 45/40	1	Details of LED load circuits	H05B 45/40, H05B 45/42
N	H05B 45/42	2	Antiparallel configurations	
N	H05B 45/44	2	with an active control inside an LED matrix	
N	H05B 45/46	3	having LEDs disposed in parallel lines	
N	H05B 45/48	3	having LEDs organised in strings and incorporating parallel shunting devices	
Q	H05B 45/50	1	responsive to malfunctions of LEDs; responsive to LED life; Protective circuits	H05B 45/50, H05B 45/52, H05B 45/54, H05B 45/56
N	H05B 45/52	2	in a parallel array of LEDs	
N	H05B 45/54	2	in a series array of LEDs	
N	H05B 45/56	2	involving measures to prevent abnormal temperature of the LEDs	
N	H05B 45/58	2	involving end of life detection of LEDs	
N	H05B 45/60	1	{Circuit arrangements for operating light emitting diodes [LEDs] comprising organic materials, e.g. polymer LEDs [PLED] or organic LEDs [OLED]}	
N	H05B 46/00	0	Circuit arrangements for light sources using a charge of combustible material	

## CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

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Q	H05B 47/00	0	Circuit arrangements for operating light sources in general, i.e. where the type of the light source is not relevant	H05B 47/00, H05B 47/10, H05B 47/105, H05B 47/11, H05B 47/115, H05B 47/12, H05B 47/125, H05B 47/13, H05B 47/135, H05B 47/14, H05B 47/155, H05B 47/16, H05B 47/165, H05B 47/17, H05B 47/175, H05B 47/18, H05B 47/185, H05B 47/19, H05B 47/195, H05B 47/20, H05B 47/21, H05B 47/22, H05B 47/23, H05B 47/235, H05B 47/24, H05B 47/25, H05B 47/26, H05B 47/28, H05B 47/29
Q	H05B 47/10	1	Controlling the light source	H05B 47/10, H05B 47/165, H05B 47/17
Q	H05B 47/105	2	in response to determined parameters	H05B 47/105, H05B 47/115, H05B 47/125, H05B 47/13, H05B 47/135, H05B 47/14
N	H05B 47/11	3	by determining the brightness or colour temperature of ambient light	
N	H05B 47/115	3	by determining the presence or movement of objects or living beings	
N	H05B 47/12	4	by detecting audible sound	
N	H05B 47/125	4	by using cameras	
N	H05B 47/13	4	by using passive infrared detectors	

## CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

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N	H05B 47/135	3	by determining the type of light source being controlled (electrical parameters of light source being controlled H05B 47/14)	
N	H05B 47/14	3	by determining electrical parameters of the light source	
N	H05B 47/155	2	Coordinated control of two or more light sources	
N	H05B 47/16	2	by timing means	
N	H05B 47/165	2	following a pre-assigned programmed sequence; Logic control [LC]	
N	H05B 47/17	2	Operational modes, e.g. switching from manual to automatic mode or prohibiting specific operations	
N	H05B 47/175	2	by remote control	
N	H05B 47/18	3	via data-bus transmission	
N	H05B 47/185	3	via power line carrier transmission	
Q	H05B 47/19	3	via wireless transmission	H05B 47/19, H05B 47/195
N	H05B 47/195	4	the transmission using visible or infrared light	
Q	H05B 47/20	1	Responsive to malfunctions or to light source life; for protection	H05B 47/20, H05B 47/24, H05B 47/25, H05B 47/26, H05B 47/28
N	H05B 47/21	2	of two or more light sources connected in parallel	
N	H05B 47/22	3	{ with communication between the lamps and a central unit }	
N	H05B 47/23	2	of two or more light sources connected in series	
N	H05B 47/235	3	{ with communication between the lamps and a central unit }	
N	H05B 47/24	2	Circuit arrangements for protecting against overvoltage	
N	H05B 47/25	2	Circuit arrangements for protecting against overcurrent	
N	H05B 47/26	2	Circuit arrangements for protecting against earth faults	
N	H05B 47/28	2	Circuit arrangements for protecting against abnormal temperature	
N	H05B 47/29	2	Circuits providing for substitution of the light source in case of its failure	

\*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

## CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

### PROJECT RP0646

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.

## CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

B. New, Modified or Deleted Warning(s)**SUBCLASS H05B – ELECTRIC HEATING; ELECTRIC LIGHTING NOT OTHERWISE PROVIDED FOR** (apparatus for special application, see the relevant places, e.g. A47J, C21, C22, C23, F21, F24, F27)

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	H05B 33/08		Group H05B 33/08 is impacted by reclassification into group H05B 45/00. Groups H05B 33/08 and H05B 45/00 should be considered in order to perform a complete search.
N	H05B 45/00		Group H05B 45/00 is incomplete pending reclassification of documents from group H05B 33/08. Group H05B 45/00 is also impacted by reclassification into groups H05B 45/30 - H05B 45/397. Groups H05B 33/08, H05B 45/00, and H05B 45/30-H05B 45/397 should be considered in order to perform a complete search
N	H05B 45/10		Group H05B 45/10 is impacted by reclassification into groups H05B 45/12 and H05B 45/18. Groups H05B 45/10, H05B 45/12, and H05B 45/18 should be considered in order to perform a complete search.
N	H05B 45/12		Group H05B 45/12 is incomplete pending reclassification of documents from group H05B 45/10. Groups H05B 45/10 and H05B 45/12 should be considered in order to perform a complete search.
N	H05B 45/18		Group H05B 45/18 is incomplete pending reclassification of documents from group H05B 45/10. Groups H05B 45/10 and H05B 45/18 should be considered in order to perform a complete search.
N	H05B 45/20		Group H05B 45/20 is impacted by reclassification into group H05B 45/28. Groups H05B 45/20 and H05B 45/28 should be considered in order to perform a complete search.
N	H05B 45/28		Group H05B 45/28 is incomplete pending reclassification of documents from group H05B 45/20. Groups H05B 45/20 and H05B 45/28 should be considered in order to perform a complete search.
N	H05B 45/30		Group H05B 45/30 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/30 should be considered in order to perform a complete search.
N	H05B 45/305		Group H05B 45/305 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/305 should be considered in order to perform a complete search.
N	H05B 45/31		Group H05B 45/31 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/31 should be considered in order to perform a complete search.
N	H05B 45/315		Group H05B 45/315 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/315 should be considered in order to perform a complete search.

CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	H05B 45/32		Group H05B 45/32 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/32 should be considered in order to perform a complete search.
N	H05B 45/325		Group H05B 45/325 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/325 should be considered in order to perform a complete search.
N	H05B 45/327		Group H05B 45/327 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/327 should be considered in order to perform a complete search.
N	H05B 45/33		Group H05B 45/33 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/33 should be considered in order to perform a complete search.
N	H05B 45/335		Group H05B 45/335 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/335 should be considered in order to perform a complete search.
N	H05B 45/34		Group H05B 45/34 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/34 should be considered in order to perform a complete search.
N	H05B 45/345		Group H05B 45/345 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/345 should be considered in order to perform a complete search.
N	H05B 45/347		Group H05B 45/347 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/347 should be considered in order to perform a complete search.
N	H05B 45/35		Group H05B 45/35 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/35 should be considered in order to perform a complete search.
N	H05B 45/355		Group H05B 45/355 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/355 should be considered in order to perform a complete search.
N	H05B 45/357		Group H05B 45/357 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/357 should be considered in order to perform a complete search.
N	H05B 45/3574		Group H05B 45/3574 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/3574 should be considered in order to perform a complete search.

CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	H05B 45/3575		Group H05B 45/3575 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/3575 should be considered in order to perform a complete search.
N	H05B 45/3577		Group H05B 45/3577 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/3577 should be considered in order to perform a complete search.
N	H05B 45/3578		Group H05B 45/3578 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/3578 should be considered in order to perform a complete search.
N	H05B 45/36		Group H05B 45/36 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/36 should be considered in order to perform a complete search.
N	H05B 45/37		Group H05B 45/37 is incomplete pending reclassification of documents from group H05B 45/00. Group H05B 45/37 is also impacted by reclassification into groups H05B 45/3725, H05B 45/375, H05B 45/38, H05B 45/382, H05B 45/385, H05B 45/39, and H05B 45/392. All groups listed in this Warning should be considered in order to perform a complete search.
N	H05B 45/3725		Group H05B 45/3725 is incomplete pending reclassification of documents from groups H05B 45/00 and H05B 45/37. Groups H05B 45/00, H05B 45/37, and H05B 45/3725 should be considered in order to perform a complete search.
N	H05B 45/375		Group H05B 45/375 is incomplete pending reclassification of documents from groups H05B 45/00 and H05B 45/37. Groups H05B 45/00, H05B 45/37, and H05B 45/375 should be considered in order to perform a complete search.
N	H05B 45/38		Group H05B 45/38 is incomplete pending reclassification of documents from groups H05B 45/00 and H05B 45/37. Groups H05B 45/00, H05B 45/37, and H05B 45/38 should be considered in order to perform a complete search.
N	H05B 45/382		Group H05B 45/382 is incomplete pending reclassification of documents from groups H05B 45/00 and H05B 45/37. Groups H05B 45/00, H05B 45/37, and H05B 45/382 should be considered in order to perform a complete search.
N	H05B 45/385		Group H05B 45/385 is incomplete pending reclassification of documents from groups H05B 45/00 and H05B 45/37. Groups H05B 45/00, H05B 45/37, and H05B 45/385 should be considered in order to perform a complete search.
N	H05B 45/39		Group H05B 45/39 is incomplete pending reclassification of documents from groups H05B 45/00 and H05B 45/37. Groups H05B 45/00, H05B 45/37, and H05B 45/39 should be considered in order to perform a complete search.
N	H05B 45/392		Group H05B 45/392 is incomplete pending reclassification of documents from groups H05B 45/00 and H05B 45/37. Groups H05B 45/00, H05B 45/37, and H05B 45/392 should be considered in order to perform a complete search.



## CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	H05B 45/395		Group H05B 45/395 is incomplete pending reclassification of documents from group H05B 45/00. Group H05B 45/395 is also impacted by reclassification into group H05B 45/397. Groups H05B 45/00, H05B 45/395, and H05B 45/397 should be considered in order to perform a complete search
N	H05B 45/397		Group H05B 45/397 is incomplete pending reclassification of documents from groups H05B 45/00 and H05B 45/395. Groups H05B 45/00, H05B 45/395, and H05B 45/397 should be considered in order to perform a complete search.
N	H05B 45/40		Group H05B 45/40 is impacted by reclassification into group H05B 45/42. Groups H05B 45/40 and H05B 45/42 should be considered in order to perform a complete search.
N	H05B 45/42		Group H05B 45/42 is incomplete pending reclassification of documents from group H05B 45/40. Groups H05B 45/40 and H05B 45/42 should be considered in order to perform a complete search.
N	H05B 45/50		Group H05B 45/50 is impacted by reclassification into groups H05B 45/52, H05B 45/54, and H05B 45/56. All groups listed in this Warning should be considered in order to perform a complete search.
N	H05B 45/52		Group H05B 45/52 is incomplete pending reclassification of documents from group H05B 45/50. Groups H05B 45/50 and H05B 45/52 should be considered in order to perform a complete search.
N	H05B 45/54		Group H05B 45/54 is incomplete pending reclassification of documents from group H05B 45/50. Groups H05B 45/50 and H05B 45/54 should be considered in order to perform a complete search.
N	H05B 45/56		Group H05B 45/56 is incomplete pending reclassification of documents from group H05B 45/50. Groups H05B 45/50 and H05B 45/56 should be considered in order to perform a complete search.
N	H05B 47/00		Group H05B 47/00 is impacted by reclassification into groups H05B 47/10-H05B 47/29. Groups H05B 47/00 and H05B 47/10-H05B 47/29 should be considered in order to perform a complete search.
N	H05B 47/10		Group H05B 47/10 is incomplete pending reclassification of documents from group H05B 47/00. Group H05B 47/10 is also impacted by reclassification into groups H05B 47/165 and H05B 47/17. All groups listed in this Warning should be considered in order to perform a complete search.
N	H05B 47/105		Group H05B 47/105 is incomplete pending reclassification of documents from group H05B 47/00. Group H05B 47/105 is also impacted by reclassification into groups H05B 47/115, H05B 47/125, H05B 47/13, H05B 47/135, and H05B 47/14. All groups listed in this Warning should be considered in order to perform a complete search.
N	H05B 47/11		Group H05B 47/11 is incomplete pending reclassification of documents from group H05B 47/00. Groups H05B 47/00 and H05B 47/11 should be considered in order to perform a complete search.

CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	H05B 47/115		Group H05B 47/115 is incomplete pending reclassification of documents from groups H05B 47/00 and H05B 47/105. Groups H05B 47/00, H05B 47/105, and H05B 47/115 should be considered in order to perform a complete search.
N	H05B 47/12		Group H05B 47/12 is incomplete pending reclassification of documents from group H05B 47/00. Groups H05B 47/00 and H05B 47/12 should be considered in order to perform a complete search.
N	H05B 47/125		Group H05B 47/125 is incomplete pending reclassification of documents from groups H05B 47/00 and H05B 47/105. Groups H05B 47/00, H05B 47/105, and H05B 47/125 should be considered in order to perform a complete search.
N	H05B 47/13		Group H05B 47/13 is incomplete pending reclassification of documents from groups H05B 47/00 and H05B 47/105. Groups H05B 47/00, H05B 47/105, and H05B 47/13 should be considered in order to perform a complete search.
N	H05B 47/135		Group H05B 47/135 is incomplete pending reclassification of documents from groups H05B 47/00 and H05B 47/105. Groups H05B 47/00, H05B 47/105, and H05B 47/135 should be considered in order to perform a complete search.
N	H05B 47/14		Group H05B 47/14 is incomplete pending reclassification of documents from groups H05B 47/00 and H05B 47/105. Groups H05B 47/00, H05B 47/105, and H05B 47/14 should be considered in order to perform a complete search.
N	H05B 47/155		Group H05B 47/155 is incomplete pending reclassification of documents from group H05B 47/00. Groups H05B 47/00 and H05B 47/155 should be considered in order to perform a complete search.
N	H05B 47/16		Group H05B 47/16 is incomplete pending reclassification of documents from group H05B 47/00. Groups H05B 47/00 and H05B 47/16 should be considered in order to perform a complete search.
N	H05B 47/165		Group H05B 47/165 is incomplete pending reclassification of documents from groups H05B 47/00 and H05B 47/10. Groups H05B 47/00, H05B 47/10, and H05B 47/165 should be considered in order to perform a complete search.
N	H05B 47/17		Group H05B 47/17 is incomplete pending reclassification of documents from groups H05B 47/00 and H05B 47/10. Groups H05B 47/00, H05B 47/10, and H05B 47/17 should be considered in order to perform a complete search.
N	H05B 47/175		Group H05B 47/175 is incomplete pending reclassification of documents from group H05B 47/00. Groups H05B 47/00 and H05B 47/175 should be considered in order to perform a complete search.
N	H05B 47/18		Group H05B 47/18 is incomplete pending reclassification of documents from group H05B 47/00. Groups H05B 47/00 and H05B 47/18 should be considered in order to perform a complete search.

CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	H05B 47/185		Group H05B 47/185 is incomplete pending reclassification of documents from group H05B 47/00. Groups H05B 47/00 and H05B 47/185 should be considered in order to perform a complete search.
N	H05B 47/19		Group H05B 47/19 is incomplete pending reclassification of documents from group H05B 47/00. Group H05B 47/19 is also impacted by reclassification into group H05B 47/195. Groups H05B 47/00, H05B 47/19, and H05B 47/195 should be considered in order to perform a complete search
N	H05B 47/195		Group H05B 47/195 is incomplete pending reclassification of documents from groups H05B 47/00 and H05B 47/19. Groups H05B 47/00, H05B 47/19, and H05B 47/195 should be considered in order to perform a complete search.
N	H05B 47/20		Group H05B 47/20 is incomplete pending reclassification of documents from group H05B 47/00. Group H05B 47/20 is also impacted by reclassification into groups H05B 47/24, H05B 47/25, H05B 47/26, and H05B 47/28. All groups listed in this Warning should be considered in order to perform a complete search.
N	H05B 47/21		Group H05B 47/21 is incomplete pending reclassification of documents from group H05B 47/00. Groups H05B 47/00 and H05B 47/21 should be considered in order to perform a complete search.
N	H05B 47/22		Group H05B 47/22 is incomplete pending reclassification of documents from group H05B 47/00. Groups H05B 47/00 and H05B 47/22 should be considered in order to perform a complete search.
N	H05B 47/23		Group H05B 47/23 is incomplete pending reclassification of documents from group H05B 47/00. Groups H05B 47/00 and H05B 47/23 should be considered in order to perform a complete search.
N	H05B 47/235		Group H05B 47/235 is incomplete pending reclassification of documents from group H05B 47/00. Groups H05B 47/00 and H05B 47/235 should be considered in order to perform a complete search.
N	H05B 47/24		Group H05B 47/24 is incomplete pending reclassification of documents from groups H05B 47/00 and H05B 47/20. Groups H05B 47/00, H05B 47/20, and H05B 47/24 should be considered in order to perform a complete search.
N	H05B 47/25		Group H05B 47/25 is incomplete pending reclassification of documents from groups H05B 47/00 and H05B 47/20. Groups H05B 47/00, H05B 47/20, and H05B 47/25 should be considered in order to perform a complete search.
N	H05B 47/26		Group H05B 47/26 is incomplete pending reclassification of documents from groups H05B 47/00 and H05B 47/20. Groups H05B 47/00, H05B 47/20, and H05B 47/26 should be considered in order to perform a complete search.
N	H05B 47/28		Group H05B 47/28 is incomplete pending reclassification of documents from groups H05B 47/00 and H05B 47/20. Groups H05B 47/00, H05B 47/20, and H05B 47/28 should be considered in order to perform a complete search.

CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	H05B 47/29		Group H05B 47/29 is incomplete pending reclassification of documents from group H05B 47/00. Groups H05B 47/00 and H05B 47/29 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.

CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

C. New, Modified or Deleted Note(s)

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	H	<p>III. In this section, the following special cases occur:</p> <p>a. among the general applications covered by sections other than section H, it is worth noting that electric heating in general is covered by subclasses F24D or F24H or class F27, and that electric lighting in general is partly covered by class F21, since in section H (see I(c), above) there are places in H05B which cover the same technical subjects;</p> <p>b. in the two cases referred to under (a), above, the subclasses of section F, which deal with the respective subjects, essentially cover in the first place the whole mechanical aspect of the apparatus or devices, whereas the electrical aspect, as such, is covered by subclass H05B;</p> <p>c. in the case of lighting, this mechanical aspect should be taken to cover the material arrangement of the various electric elements, i.e., their geometrical or physical position in relation to one another; this aspect is covered by subclasses of class F21, the elements themselves and the primary circuits remaining in section H. The same applies to electric light sources, when combined with light sources of a different kind. These are covered by subclass H05B, whereas the physical arrangement which their combination constitutes is covered by subclasses of class F21;</p> <p>d. as regards heating, not only the electric elements and circuitry designs, as such, are covered by subclass H05B, but also the electric aspects of their arrangement, where these concern cases of general application; electric furnaces being considered as such. The physical disposition of the electric elements in furnaces is covered by section F. If a comparison is made with electric welding circuits, which are covered by subclass B23K in connection with welding, it can be seen that electric heating is not covered by the general rule stated in II, above.</p>	<p><u>DELETE</u> entirely only Note III.</p>

DATE: JANUARY 1, 2020

PROJECT RP0646

**SUBCLASS H05B – ELECTRIC HEATING; ELECTRIC LIGHTING NOT OTHERWISE PROVIDED FOR** (apparatus for special application, see the relevant places, e.g. A47J, C21, C22, C23, F21, F24, F27)

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	H05B	Attention is drawn to the Note (paragraph III) following the contents of Section of Section H	<p><u>REPLACE</u> the existing note with the following <u>NEW</u> note.</p> <p>In this subclass, the following special cases occur:</p> <ol style="list-style-type: none"> <li>a. Among the general applications covered by sections other than section H, it is worth noting that electric heating in general is covered by subclasses F24D or F24H or class F27, and that electric lighting in general is partly covered by class F21, since in section H (see Note I(c) after the title of section H) there are places in H05B which cover the same technical subjects;</li> <li>b. In the two cases referred to in Note (a) above, the subclasses of section F, which deal with the respective subjects, essentially cover in the first place the whole mechanical aspect of the apparatus or devices, whereas the electrical aspect, as such, is covered by subclass H05B;</li> <li>c. In the case of lighting, this mechanical aspect should be taken to cover the material arrangement of the various electric elements, i.e. their geometrical or physical position in relation to one another; this aspect is covered by subclasses of class F21, the elements themselves and the primary circuits remaining in section H. The same applies to electric light sources, when combined with light sources of a different kind. These are covered by subclass H05B, whereas the physical arrangement which their combination constitutes is covered by subclasses of class F21;</li> <li>d. As regards heating, not only the electric elements and circuitry designs, as such, are covered by subclass H05B, but also the electric aspects of their arrangement, where these concern cases of general application; electric furnaces being considered as such. The physical disposition of the electric elements in furnaces is covered by section F. If a comparison is made with electric welding circuits, which are covered by subclass B23K in connection with welding, it can be seen that electric heating is not covered by the general rule stated in Note II after the title of section H.</li> </ol>
N	H05B 45/00		In this group, multi-aspect classification is applied, so that subject matter characterised by aspects covered by more than one of its subgroups, which is considered to represent information of interest for search, may also be classified in each of those subgroups.

CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
N	H05B 47/00		In this group, multi-aspect classification is applied, so that subject matter characterised by aspects covered by more than one of its subgroups, which is considered to represent information of interest for search, may also be classified in each of those subgroups.

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

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

DATE: JANUARY 1, 2020

PROJECT RP0646

## 2. A. DEFINITIONS (new)

Insert the following NEW definitions.

### H05B 39/04

#### References

##### *Informative references:*

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

Regulating electric variables in general	G05F
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### H05B 41/04

#### References

##### *Informative references*

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

Igniting arrangements for discharge lamps	H01J7/30, H01J17/30, H01J61/54
Switches in general	H01H

### H05B 41/30

#### References

##### *Informative references*

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

Welding using accumulated energy	B23K 11/24
Circuit arrangements for gas discharge lasers	H01S 3/097



DATE: JANUARY 1, 2020

PROJECT RP0646

Electrical pulse generators with charge and discharge of an accumulating element	<a href="#">H03K 3/53</a>
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**H05B 45/00****Definition statement***This place covers:*

Time switching, focus/target/beam control, LED flashes, LEDs as sensors, power saving aspects, shift registers control (simple sequences), emergency lights (when no other aspect is more relevant).

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

Controlling of light sources in general	<a href="#">H05B 47/10</a>
Controlling by the ambient light	<a href="#">H05B 47/11</a>
Controlling in response to parameters	<a href="#">H05B 47/105</a>
Control using data bus linked networks	<a href="#">H05B 47/18</a>
Control using power line carrier linked networks	<a href="#">H05B 47/185</a>
Control using wireless networks	<a href="#">H05B 47/19</a>
Control using timing means	<a href="#">H05B 47/16</a>

**Special rules of classification**

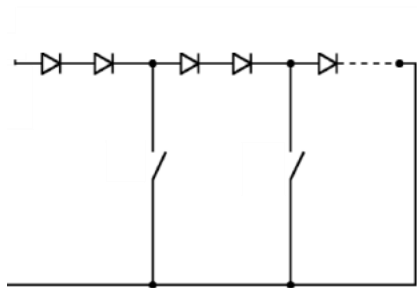
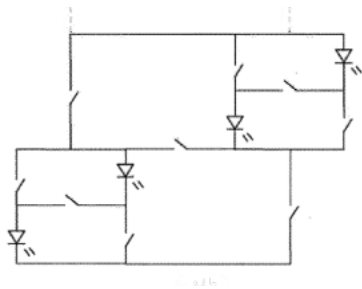
When classifying in [H05B45/00](#), further classification is made in [H05B 47/00](#), for aspects, which are not lamp specific, whenever appropriate.

## H05B 45/44

### Definition statement

*This place covers:*

Adaptive matrixes, antiparallel arrangements with an internal active control.



## H05B 45/46

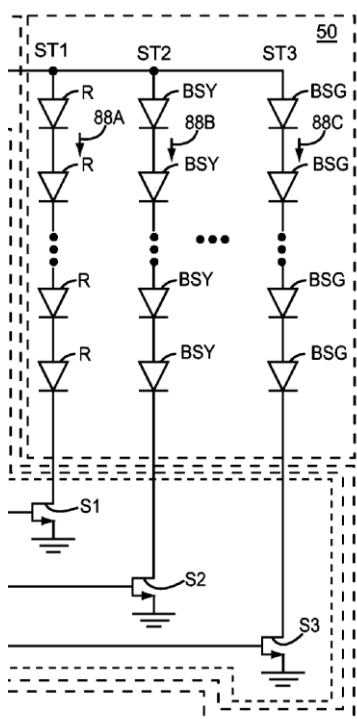
### Definition statement

*This place covers:*

LED loads formed by parallel strings of LEDs, wherein each of said strings may be individually controlled by a circuitry.

DATE: JANUARY 1, 2020

PROJECT RP0646



RGBs, current mirroring, active current balancers, minimum voltage selectors, in general when the parallel branches are gated for some purpose.

### Special rules of classification

This symbol should be given as CCI when the invention relates to the load configuration.

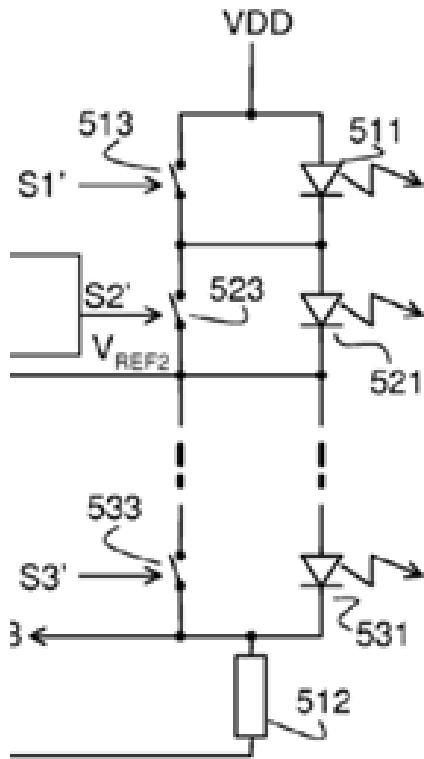
This symbol should be given as CCA when a load matching the definition can be observed in the document, but it is not the subject-matter of the invention or no details of it are provided.

### H05B 45/48

#### Definition statement

*This place covers:*

LED loads formed of LED strings, wherein each of said LEDs may be individually controlled by a parallel device, e.g. a switch, transistor, MOSFET, Zener diode or resistor.



Typical problems appearing in the documents with this symbol are: accommodation of potential in a chain of series-connected LEDs, adaptation of the number of LEDs to various supplied voltages.

### Special rules of classification

This symbol should be given as CCI when the invention relates to the load configuration.

This symbol should be given as CCA when a load matching the definition can be observed in the document, but it is not the subject matter of the invention or no details of it are provided.

### H05B 47/00

### Definition statement

*This place covers:*

Circuit arrangements for controlling light sources, where the type of light source is not relevant or not disclosed. Where the focus of the control is in the application and not in

DATE: JANUARY 1, 2020

PROJECT RP0646

the light source, e.g. controlling the light source in response to some external conditions, e.g. light dependent, occupancy or data communication.

## References

### *Informative references*

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

Wake-up lights	<a href="#">A61M 21/02</a>
Radiation therapy	<a href="#">A61N 5/00</a>
Colour music	<a href="#">A63J 17/00</a>
Vehicle lights	<a href="#">B60L 1/14</a> , <a href="#">B60Q</a>
Monitoring vehicle lamps	<a href="#">B60Q 11/00</a>
Railways light signals	<a href="#">B61L</a>
Lighting for photographic purposes	<a href="#">G03B 15/02</a>
Time controlled switching	<a href="#">G04</a> , <a href="#">H01H</a> , <a href="#">H03K</a>
Building automation systems	<a href="#">G05B 15/02</a>
Blinds or shutters	<a href="#">G05D 25/00</a>
Regulating electric variables, e.g. voltage or current	<a href="#">G05F</a>
Illuminated switch circuits	<a href="#">G08B</a> , <a href="#">G08C</a> , <a href="#">H02B 15/00</a>
Traffic lights	<a href="#">G08G 1/00</a>
Advertising	<a href="#">G09F</a>
Light or sound activated switches	<a href="#">H03K 17/00</a>
Transmission of digital information	<a href="#">H04L</a>

DATE: JANUARY 1, 2020

PROJECT RP0646

## 2. A. DEFINITIONS (modified)

### H05B

#### References out of a residual place

Insert: The following new row in the References out of a residual place table.

Electric lighting	F21
-------------------	-----

Replace: The word “Lasers” in the row (Lasers...H01S) with the following word.

Laser

### H05B 6/00

#### Limiting References

Delete: The following row from the Limiting references table.

For therapeutic purposes	A61N 5/00
--------------------------	-----------

Insert: The following new row in the Limiting references table.

Radiation therapy using microwaves	A61N 5/02
------------------------------------	-----------

#### Application-oriented references

Replace: In the Application-oriented references table, only the text in the first column with the following new text.

Single-crystal growth by zone-melting or refining by zone-melting using heating of the molten zone by induction, e.g. hot wire technique	C30B 13/20
--	------------

## Informative References

Insert: A comma after the word “heating” as shown in the row below.

Trolleys with heating, cooling or ventilating means	<a href="#">A47B 31/02</a>
---	----------------------------

Insert: The word: “of” before the word “particular” as shown in the row below.

Kitchen equipment of specific material or of particular construction	<a href="#">A47J 36/02</a> , <a href="#">A47J 27/002</a>
--	---

Insert: The following two new rows in the Informative references table.

Joining of preformed parts by heating of plastics or substances in a plastic state	<a href="#">B29C 65/02</a>
--	----------------------------

Replace: This text: “Transparent panels (for doors specially adapted for stoves or ranges)” with the following revised text.

Transparent panels, e.g. for doors specially adapted for stoves or ranges	<a href="#">F24C 15/04</a>
---	----------------------------

## H05B 7/00

### Limiting References

Delete: The following row from the Limiting References table.

Electron beam or ion beam tubes for localised treatment of objects	H01J 37/30
--	------------

**Informative References**

Insert: The following new row in the Informative References table.

Electron beam or ion beam tubes for localised treatment of objects	<a href="#">H01J 37/30</a>
--	----------------------------

**H05B 31/00****Limiting References**

Delete: The following two rows from the Limiting references table.

Luminaries and their mechanical construction	F21
Electric discharge tubes or discharge lamps	H01J

Insert: The following new Informative references section.

**Informative References**

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

Circuit for gas discharge lamps	<a href="#">H05B 41/00</a>
Electric lighting	<a href="#">F21</a>
Electric discharge tubes or discharge lamps	<a href="#">H01J</a>
Electric arc lamps with non-consumable electrodes	<a href="#">H01J 61/00</a>

**H05B 33/00****Definition statement**

Replace: The existing statement in the Definition statement section with the following new statements.

- Structural details of electroluminescent light sources
- Chemical elements, chemical compositions or chemical compounds capable of emitting light



DATE: JANUARY 1, 2020

PROJECT RP0646

- Circuit arrangements for driving said electroluminescent sources.

### Limiting 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:*

Luminescent scales or hands	G01D 13/20, G01D 13/28
Luminescent dials	G09F 13/20
Conductive layers on isolated substrate	H01B 1/00
Discharge lamps	H01J 61/00 - H01J 65/00
Semi-conductor devices with at least one particular jump barrier or surface barrier adapted for light emission	H01L27/15, H01L33/00
Organic light emitting devices	H01L 27/32, H01L 51/50
Solid state image amplifiers	H01L 31/14
Lasers	H01S 3/00, H01S 5/00
Pulse generation with electroluminescent elements	H03K 3/00
Electronic gates with electroluminescent elements	H03K 17/78

### Special rules of classification

Delete: The entire Special rules of classification section.

## H05B 33/08

### Definition statement

Replace: All text in the Definition statement section with the following new text.

Circuits for driving electroluminescent panels.

### Limiting references

Replace: All rows in the Limiting references table with the following one row.

Circuit arrangements for operating light emitting diodes	H05B 45/00
--	------------

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 light sources general	H05B 47/00
Circuit arrangements or apparatus for operating discharge lamps, e.g. fluorescent tubes	H05B 41/00
Electric lighting	F21
Control arrangements or circuits for displays	G09G 3/00
Inorganic light emitting devices [LED]	H01L 33/00
Onorganic light emitting devices [OLED]	H01L 51/00
Laser	H01S 3/00, H01S 5/00
Switching power supplies in general and inverters	H02M
Printed circuits [PCBs]; Details of electric apparatus, e.g. heatsinks	H05K

DATE: JANUARY 1, 2020

PROJECT RP0646

## Special rules of classification

Replace: All text in the Special rules of classification section with the following new text.

- Control of white light is classified in the colour section [H05B 45/20](#) and subgroups.

## H05B 35/00

### Informative references

Delete: The following rows from the Informative references table.

Driving Electroluminescent panels	H05B 33/08
Driving LEDs	H05B 33/0803
Controlling of lighting in general	H05B 37/00
Driving Incandescent lamps	H05B 39/00
Driving Fluorescent lamps	H05B 41/00

Insert: The following rows in the Informative references table.

Driving electroluminescent panels	<a href="#">H05B 33/08</a>
Circuit arrangements for operating light emitting diodes [LED]	<a href="#">H05B 45/00</a>
Circuit arrangements for electric light sources in general	<a href="#">H05B 47/00</a>
Circuit arrangements or apparatus for operating incandescent light sources	<a href="#">H05B 39/00</a>
Circuit arrangements or apparatus for igniting or operating discharge lamps, e.g. fluorescent lamps	<a href="#">H05B 41/00</a>

## H05B 39/00

### Definition statement

Replace: The statement in the Definition statement section with the following text.

Circuit arrangements for controlling the light intensity of incandescent lamps.

### Limiting 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:*

Regulating electric variables, e.g. voltage or current	G05F
Incandescent lamps per se	H01K
Switching power supplies and inverters	H02M
Switching in general	H03K

Delete: The entire Special rules of classification section.

## H05B 41/00

### Definition statement

Replace: The statement in the Definition statement section with the following text.

Circuit arrangements, e.g. drivers, for discharge lamps.

### Limiting references

DATE: JANUARY 1, 2020

PROJECT RP0646

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:*

Arc lamps with consumable electrodes	<a href="#">H05B 31/00</a>
Welding using accumulated energy	<a href="#">B23K 11/24</a>
Electric lighting	<a href="#">F21</a>
Transformers or chokes for supplying discharge lamps	<a href="#">H01F 38/08</a>
Circuit elements structurally associated with discharge lamps	<a href="#">H01J7/44</a> , <a href="#">H01J19/78</a>
Discharge lamps per se	<a href="#">H01J 61/00</a> – <a href="#">H01J 65/00</a>
Discharge lasers	<a href="#">H01S 3/00</a>
Pulse technique	<a href="#">H03K</a>
PCBs in general	<a href="#">H05K</a>

### **Special rules of classification**

Delete: The entire Special rules of classification section.

CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

2. B. DEFINITIONS QUICK FIX

<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
H05B 33/0824			Delete the entire definition.
H05B 33/0827			Delete the entire definition.
H05B 33/083			Delete the entire definition.
H05B 33/0842			Delete the entire definition.
H05B 37/00			Delete the entire definition.
H05B 43/00			Delete the entire definition.

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.

CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

3. REVISION CONCORDANCE LIST (RCL)

<b>Type*</b>	<b>From CPC Symbol (existing)</b>	<b>To CPC Symbol(s)</b>
C	H05B 33/08	H05B 33/08, H05B 45/00
D	H05B 33/0803	<administrative transfer to H05B 45/00>
D	H05B 33/0806	<administrative transfer to H05B 45/00>
D	H05B 33/0809	<administrative transfer to H05B 45/37>
D	H05B 33/0812	<administrative transfer to H05B 45/395>
D	H05B 33/0815	<administrative transfer to H05B 45/37>
D	H05B 33/0818	<administrative transfer to H05B 45/37>
D	H05B 33/0821	<administrative transfer to H05B 45/40>
D	H05B 33/0824	<administrative transfer to H05B 45/44>
D	H05B 33/0827	<administrative transfer to H05B 45/46>
D	H05B 33/083	<administrative transfer to H05B 45/48>
D	H05B 33/0842	<administrative transfer to H05B 45/00>
D	H05B 33/0845	<administrative transfer to H05B 45/10>
D	H05B 33/0848	<administrative transfer to H05B 45/14>
D	H05B 33/0851	<administrative transfer to H05B 45/10>
D	H05B 33/0854	<administrative transfer to H05B 45/10>
D	H05B 33/0857	<administrative transfer to H05B 45/20>
D	H05B 33/086	<administrative transfer to H05B 45/20>
D	H05B 33/0863	<administrative transfer to H05B 45/20>
D	H05B 33/0866	<administrative transfer to H05B 45/24>
D	H05B 33/0869	<administrative transfer to H05B 45/22>
D	H05B 33/0872	<administrative transfer to H05B 45/20>
D	H05B 33/0884	<administrative transfer to H05B 45/50>
D	H05B 33/0887	<administrative transfer to H05B 45/50>
D	H05B 33/089	<administrative transfer to H05B 45/50>
D	H05B 33/0893	<administrative transfer to H05B 45/58>
D	H05B 33/0896	<administrative transfer to H05B 45/60>
D	H05B 37/00	<administrative transfer to H05B 47/00>
D	H05B 37/02	<administrative transfer to H05B 47/10>
D	H05B 37/0209	<administrative transfer to H05B 47/10>
D	H05B 37/0218	<administrative transfer to H05B 47/11>
D	H05B 37/0227	<administrative transfer to H05B 47/105>
D	H05B 37/0236	<administrative transfer to H05B 47/12>
D	H05B 37/0245	<administrative transfer to H05B 47/175>
D	H05B 37/0254	<administrative transfer to H05B 47/18>
D	H05B 37/0263	<administrative transfer to H05B 47/185>
D	H05B 37/0272	<administrative transfer to H05B 47/19>
D	H05B 37/0281	<administrative transfer to H05B 47/16>
D	H05B 37/029	<administrative transfer to H05B 47/155>
D	H05B 37/03	<administrative transfer to H05B 47/20>
D	H05B 37/032	<administrative transfer to H05B 47/21>
D	H05B 37/034	<administrative transfer to H05B 47/22>
D	H05B 37/036	<administrative transfer to H05B 47/23>
D	H05B 37/038	<administrative transfer to H05B 47/235>
D	H05B 37/04	<administrative transfer to H05B 47/29>

## CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

<b>Type*</b>	<b>From CPC Symbol (existing)</b>	<b>To CPC Symbol(s)</b>
D	H05B 43/00	<administrative transfer to H05B 47/00>
D	H05B 43/02	<administrative transfer to H05B 46/00>
Q	H05B 45/00	H05B 45/00, H05B 45/30, H05B 45/305, H05B 45/31, H05B 45/315, H05B 45/32, H05B 45/325, H05B 45/327, H05B 45/33, H05B 45/335, H05B 45/34, H05B 45/345, H05B 45/347, H05B 45/35, H05B 45/355, H05B 45/357, H05B 45/3574, H05B 45/3575, H05B 45/3577, H05B 45/3578, H05B 45/36, H05B 45/37, H05B 45/3725, H05B 45/375, H05B 45/38, H05B 45/382, H05B 45/385, H05B 45/39, H05B 45/392, H05B 45/395, H05B 45/397
Q	H05B 45/10	H05B 45/10, H05B 45/12, H05B 45/18
Q	H05B 45/20	H05B 45/20, H05B 45/28
Q	H05B 45/37	H05B 45/37, H05B 45/3725, H05B 45/375, H05B 45/38, H05B 45/382, H05B 45/385, H05B 45/39, H05B 45/392
Q	H05B 45/395	H05B 45/395, H05B 45/397
Q	H05B 45/40	H05B 45/40, H05B 45/42
Q	H05B 45/50	H05B 45/50, H05B 45/52, H05B 45/54, H05B 45/56
Q	H05B 47/00	H05B 47/00, H05B 47/10, H05B 47/105, H05B 47/11, H05B 47/115, H05B 47/12, H05B 47/125, H05B 47/13, H05B 47/135, H05B 47/14, H05B 47/155, H05B 47/16, H05B 47/165, H05B 47/17, H05B 47/175, H05B 47/18, H05B 47/185, H05B 47/19, H05B 47/195, H05B 47/20, H05B 47/21, H05B 47/22, H05B 47/23, H05B 47/235, H05B 47/24, H05B 47/25, H05B 47/26, H05B 47/28, H05B 47/29
Q	H05B 47/10	H05B 47/10, H05B 47/165, H05B 47/17
Q	H05B 47/105	H05B 47/105, H05B 47/115, H05B 47/125, H05B 47/13, H05B 47/135, H05B 47/14
Q	H05B 47/19	H05B 47/19, H05B 47/195
Q	H05B 47/20	H05B 47/20, H05B 47/24, H05B 47/25, H05B 47/26, H05B 47/28

\* 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; F = frozen entries will be deleted once reclassification of documents from the entries is completed.

## NOTES:

- Only C, D, F, and Q type entries are included in the table above.
- When multiple symbols are included in the “To” column, do not use ranges of symbols.
- 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 (“To”) symbol, however it is required to specify “<no transfer>” in the “To” column for such cases.
- RCL is not needed for finalisation projects.



CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H05B 33/0803		DELETE
H05B 33/0806		DELETE
H05B 33/0809		DELETE
H05B 33/0812		DELETE
H05B 33/0815		DELETE
H05B 33/0818		DELETE
H05B 33/0821		DELETE
H05B 33/0824		DELETE
H05B 33/0827		DELETE
H05B 33/083		DELETE
H05B 33/0842		DELETE
H05B 33/0845		DELETE
H05B 33/0848		DELETE
H05B 33/0851		DELETE
H05B 33/0854		DELETE
H05B 33/0857		DELETE
H05B 33/086		DELETE
H05B 33/0863		DELETE
H05B 33/0866		DELETE
H05B 33/0869		DELETE
H05B 33/0872		DELETE
H05B 33/0884		DELETE
H05B 33/0887		DELETE
H05B 33/089		DELETE
H05B 33/0893		DELETE
H05B 33/0896		DELETE
H05B 37/00		DELETE
H05B 37/02		DELETE
H05B 37/0209		DELETE
H05B 37/0218		DELETE
H05B 37/0227		DELETE
H05B 37/0236		DELETE
H05B 37/0245		DELETE
H05B 37/0254		DELETE
H05B 37/0263		DELETE
H05B 37/0272		DELETE
H05B 37/0281		DELETE
H05B 37/029		DELETE
H05B 37/03		DELETE
H05B 37/032		DELETE
H05B 37/034		DELETE
H05B 37/036		DELETE

CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H05B 37/038		DELETE
H05B 37/04		DELETE
H05B 43/00		DELETE
H05B 43/02		DELETE
H05B 45/00	H05B 45/00	NEW
H05B 45/10	H05B 45/10	NEW
H05B 45/12	H05B 45/12	NEW
H05B 45/14	H05B 45/14	NEW
H05B 45/18	H05B 45/18	NEW
H05B 45/20	H05B 45/20	NEW
H05B 45/22	H05B 45/22	NEW
H05B 45/24	H05B 45/24	NEW
H05B 45/28	H05B 45/28	NEW
H05B 45/30	H05B 45/30	NEW
H05B 45/305	H05B 45/305	NEW
H05B 45/31	H05B 45/31	NEW
H05B 45/315	H05B 45/315	NEW
H05B 45/32	H05B 45/32	NEW
H05B 45/325	H05B 45/325	NEW
H05B 45/327	H05B 45/327	NEW
H05B 45/33	H05B 45/33	NEW
H05B 45/335	H05B 45/335	NEW
H05B 45/34	H05B 45/34	NEW
H05B 45/345	H05B 45/345	NEW
H05B 45/347	H05B 45/347	NEW
H05B 45/35	H05B 45/35	NEW
H05B 45/355	H05B 45/355	NEW
H05B 45/357	H05B 45/357	NEW
H05B 45/3574	H05B 45/3574	NEW
H05B 45/3575	H05B 45/3575	NEW
H05B 45/3577	H05B 45/3577	NEW
H05B 45/3578	H05B 45/3578	NEW
H05B 45/36	H05B 45/36	NEW
H05B 45/37	H05B 45/37	NEW
H05B 45/3725	H05B 45/3725	NEW
H05B 45/375	H05B 45/375	NEW
H05B 45/38	H05B 45/38	NEW
H05B 45/382	H05B 45/382	NEW
H05B 45/385	H05B 45/385	NEW
H05B 45/39	H05B 45/39	NEW
H05B 45/392	H05B 45/392	NEW
H05B 45/395	H05B 45/395	NEW
H05B 45/397	H05B 45/397	NEW
H05B 45/40	H05B 45/40	NEW

CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H05B 45/42	H05B 45/42	NEW
H05B 45/44	H05B 45/44	NEW
H05B 45/46	H05B 45/46	NEW
H05B 45/48	H05B 45/48	NEW
H05B 45/50	H05B 45/50	NEW
H05B 45/52	H05B 45/52	NEW
H05B 45/54	H05B 45/54	NEW
H05B 45/56	H05B 45/56	NEW
H05B 45/58	H05B 45/58	NEW
H05B 45/60	H05B 45/00	NEW
H05B 46/00	H05B 46/00	NEW
H05B 47/00	H05B 47/00	NEW
H05B 47/10	H05B 47/10	NEW
H05B 47/105	H05B 47/105	NEW
H05B 47/11	H05B 47/11	NEW
H05B 47/115	H05B 47/115	NEW
H05B 47/12	H05B 47/12	NEW
H05B 47/125	H05B 47/125	NEW
H05B 47/13	H05B 47/13	NEW
H05B 47/135	H05B 47/135	NEW
H05B 47/14	H05B 47/14	NEW
H05B 47/155	H05B 47/155	NEW
H05B 47/16	H05B 47/16	NEW
H05B 47/165	H05B 47/165	NEW
H05B 47/17	H05B 47/17	NEW
H05B 47/175	H05B 47/175	NEW
H05B 47/18	H05B 47/18	NEW
H05B 47/185	H05B 47/185	NEW
H05B 47/19	H05B 47/19	NEW
H05B 47/195	H05B 47/195	NEW
H05B 47/20	H05B 47/20	NEW
H05B 47/21	H05B 47/21	NEW
H05B 47/22	H05B 47/21	NEW
H05B 47/23	H05B 47/23	NEW
H05B 47/235	H05B 47/23	NEW
H05B 47/24	H05B 47/24	NEW
H05B 47/25	H05B 47/25	NEW
H05B 47/26	H05B 47/26	NEW
H05B 47/28	H05B 47/28	NEW
H05B 47/29	H05B 47/29	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.”

CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

- 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.

CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

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>
B60Q1/00	H05B 37/00	<u>Replace</u> with H05B 47/00.
G02B26/00	H01S3/10, H05B37/00-H05B43/00	<u>Replace</u> with H01S3/10, H05B39/00 – H05B47/00.
G02F1/00	H05B33/08, H05B35/00 – H05B43/00	<u>Replace</u> with H05B33/08, H05B35/00 – H05B47/00.
G05D25/00	H05B33/08, H05B35/00 – H05B43/00	<u>Replace</u> with H05B33/08, H05B35/00 – H05B47/00.
G08B13/19	H05B37/0227	<u>Replace</u> with H05B47/105.
H01L51/50	H05B33/0896	<u>Replace</u> with H05B45/60.
H02H3/046	H05B37/03	<u>Replace</u> with H05B47/20.
H04N9/3155	H05B37/00, H05B41/00	<u>Replace</u> with H05B35/00 – H05B47/00.

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>
A41D27/085	H05B37/0227	Informative references	<u>Replace</u> with H05B47/105.
A41G1/005	H05B37/0227	Limiting references	<u>Replace</u> with H05B47/105.
A63J5/00	H05B37/02	Informative references	<u>Replace</u> with H05B47/10.
A63J17/00	H05B37/02	Limiting references	<u>Replace</u> with H05B47/10.
B60Q3/16	H05B37/00	Informative references	<u>Replace</u> with H05B47/00.
B60Q3/47	H05B37/00	Informative references	<u>Replace</u> with H05B47/00.
B60Q3/80	H05B37/00	Informative references	<u>Replace</u> with H05B47/00.
B60Q11/00	H05B33/00 – H05B43/00	Informative references	<u>Replace</u> range with H05B47/20.
B61L	H05B37/00	Informative references	<u>Replace</u> with H05B47/00
B61L5/00	H05B37/00	Informative references	<u>Replace</u> with H05B47/00.
F21K5/00	H05B43/02	Informative references	<u>Replace</u> with H05B46/00.
F21K5/023	H05B43/02	References out of a residual place	<u>Replace</u> with H05B46/00.

## CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

<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>
F21K9/00	H05B33/0803	Informative references	<u>Replace</u> with H05B45/00.
F21K9/00	H05B33/0857	Informative references	<u>Replace</u> with H05B45/20.
F21K99/00	H05B37/00	References out of a residual place	<u>Replace</u> with H05B47/00.
F21K99/00	H05B43/00	References out of a residual place	<u>Replace</u> with H05B46/00.
F21V	H05B37/00	Informative references	<u>Replace</u> with H05B47/00.
F21V	H05B43/00	Informative references	<u>Replace</u> with H05B46/00.
F25D27/00	H05B37/00	Informative references	<u>Replace</u> with H05B47/00.
G02B26/00	H01S3/10, H05B37/00-H05B43/00	Limiting References	<u>Replace</u> with H01S3/10, H05B39/00 - H05B47/00.
G01J1/32	H05B37/00	Informative references	<u>Replace</u> with H05B47/00.
G01R	H05B37/03	References out of a residual place	<u>Replace</u> with H05B47/20.
G02F	H05B43/00	Informative references	<u>Replace</u> with H05B47/00.
G03B15/04	H05B43/02	Informative references	<u>Replace</u> with H05B46/00.
G05B15/00	H05B37/02	Informative references	<u>Replace</u> with H05B47/10.
G05D25/00	H05B43/00	Application-oriented references	<u>Replace</u> with H05B46/00.
G08B13/00	H05B37/0227	Informative references	<u>Replace</u> with H05B47/105.
G08B13/19	H05B37/0227	Informative references	<u>Replace</u> with H05B47/105.
G08C	H05B37/0272	Informative references	<u>Replace</u> with H05B47/19.
G08G1/00	H05B37/00	Informative references	<u>Replace</u> with H05B47/00.
G08G1/00	H05B37/00	Relationship	<u>Replace</u> with H05B47/00.
G08G1/095	H05B37/03	Informative references	<u>Replace</u> with H05B47/20.
G08G1/095	H05B37/04	Informative references	<u>Replace</u> with H05B47/29.
G08G1/097	H05B37/03	Informative references	<u>Replace</u> with H05B47/20.
G08G1/097	H05B37/04	Informative references	<u>Replace</u> with H05B47/29.

CPC NOTICE OF CHANGES 769

DATE: JANUARY 1, 2020

PROJECT RP0646

<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>
G09G	H05B37/00	Limiting references	<u>Replace</u> with H05B47/00.
G09G3/3406	H05B43/00	Informative references	<u>Replace</u> with H05B47/00.
H01L33/00	H05B33/0803	Informative references	<u>Replace</u> with H05B45/00.
H01L51/50	H05B33/0896	Limiting references	<u>Replace</u> with H05B45/60.
H02J1/00	H05B37/00	Limiting references	<u>Replace</u> with H05B47/00.
H02J9/00	H05B37/00	Informative references	<u>Replace</u> with H05B47/00.
H02J13/00	H05B37/00	Limiting references	<u>Replace</u> with H05B47/00.
H02J13/00	H05B37/0263	Limiting references	<u>Replace</u> with H05B47/185.
H04L12/2803	H05B37/0254	Limiting references	<u>Replace</u> with H05B47/18.

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.