

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 322

DATE: NOVEMBER 1, 2016

PROJECT RP0251

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
Symbols deleted:	H02K	57/00
	H02K	57/003
	H02K	57/006
Symbols newly created:	H02K	99/00
	H02K	99/10
	H02K	99/20
Title wording change:	H02K	subclass
	H02K	1/06
	H02K	1/22
	H02K	1/30
	H02K	1/34
	H02K	3/04
	H02K	3/14
	H02K	3/16
	H02K	3/20
	H02K	3/24
	H02K	3/32
	H02K	3/40
	H02K	3/46
	H02K	3/493
	H02K	5/00
	H02K	5/10
	H02K	5/124
	H02K	5/128
	H02K	5/132
	H02K	5/16
	H02K	5/173
	H02K	5/22
	H02K	5/24
	H02K	5/26
	H02K	7/00
	H02K	7/02
	H02K	7/06
	H02K	7/07
	H02K	7/075
	H02K	7/10
	H02K	7/112
	H02K	7/114
	H02K	7/118
	H02K	7/12
	H02K	7/14

CPC NOTICE OF CHANGES 322

DATE: NOVEMBER 1, 2016

PROJECT RP0251

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
	H02K	7/16
	H02K	9/00
	H02K	9/04
	H02K	9/06
	H02K	9/19
	H02K	9/22
	H02K	9/26
	H02K	13/00
	H02K	13/02
	H02K	13/04
	H02K	13/06
	H02K	13/08
	H02K	13/10
	H02K	13/12
	H02K	13/14
	H02K	15/00
	H02K	15/04
	H02K	15/06
	H02K	15/08
	H02K	15/10
	H02K	15/12
	H02K	15/16
	H02K	17/08
	H02K	17/10
	H02K	17/16
	H02K	17/18
	H02K	17/20
	H02K	17/22
	H02K	17/24
	H02K	17/26
	H02K	17/30
	H02K	17/32
	H02K	17/40
	H02K	17/44
	H02K	19/00
	H02K	19/08
	H02K	19/12
	H02K	19/14
	H02K	19/18
	H02K	19/20
	H02K	19/22
	H02K	19/24
	H02K	19/26
	H02K	19/36
	H02K	19/38
	H02K	21/00
	H02K	21/04
	H02K	21/12

CPC NOTICE OF CHANGES 322

DATE: NOVEMBER 1, 2016

PROJECT RP0251

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
	H02K	21/14
	H02K	21/16
	H02K	21/18
	H02K	21/22
	H02K	21/24
	H02K	21/26
	H02K	21/28
	H02K	21/30
	H02K	21/32
	H02K	21/34
	H02K	21/38
	H02K	21/40
	H02K	21/42
	H02K	21/44
	H02K	23/00
	H02K	23/02
	H02K	23/12
	H02K	23/16
	H02K	23/20
	H02K	23/22
	H02K	23/24
	H02K	23/26
	H02K	23/28
	H02K	23/30
	H02K	23/36
	H02K	23/40
	H02K	23/44
	H02K	23/48
	H02K	23/52
	H02K	23/56
	H02K	23/58
	H02K	23/60
	H02K	23/62
	H02K	23/64
	H02K	25/00
	H02K	27/00
	H02K	27/28
	H02K	29/00
	H02K	31/00
	H02K	33/00
	H02K	33/02
	H02K	33/04
	H02K	33/06
	H02K	33/08
	H02K	33/10
	H02K	33/12
	H02K	33/14
	H02K	33/16

CPC NOTICE OF CHANGES 322

DATE: NOVEMBER 1, 2016

PROJECT RP0251

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
	H02K	33/18
	H02K	35/00
	H02K	35/02
	H02K	35/04
	H02K	35/06
	H02K	37/02
	H02K	37/04
	H02K	37/06
	H02K	37/08
	H02K	37/10
	H02K	37/12
	H02K	37/14
	H02K	37/16
	H02K	37/18
	H02K	37/20
	H02K	41/035
	H02K	44/12
	H02K	44/14
	H02K	44/16
	H02K	44/18
	H02K	47/02
	H02K	47/10
	H02K	47/12
	H02K	47/18
New Definitions:	H02K	15/16
	H02K	17/30
	H02K	17/32
	H02K	27/28
Modified Definitions:	H02K	subclass
	H02K	1/30
	H02K	5/16
	H02K	7/112
	H02K	7/114
	H02K	7/118
	H02K	7/14
	H02K	9/00
	H02K	9/06
	H02K	9/22
	H02K	15/04
	H02K	17/40
	H02K	21/00
	H02K	23/64
	H02K	27/00
	H02K	33/00
	H02K	35/00

CPC NOTICE OF CHANGES 322

DATE: NOVEMBER 1, 2016

PROJECT RP0251

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
Deleted Definition:	H02K	57/00
Scheme Notes to be modified:	H02K	subclass

The following subclasses/groups are also impacted by this Notice of Changes: B60K, B81B

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 Notice(s)
 - C. Modified Note(s)
 - D. New, Modified or Deleted Guidance Heading(s)
2. DEFINITIONS (New or Modified)
 - A. DEFINITIONS (Full definition template)
 - B. DEFINITIONS (Definitions Quick Fix)
3. REVISION CONCORDANCE LIST (RCL)
4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)
5. CROSS-REFERENCE LIST (CRL)

CPC NOTICE OF CHANGES 322

DATE: NOVEMBER 1, 2016

PROJECT RP0251

1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)**SUBCLASS H02K - DYNAMO-ELECTRIC MACHINES**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	H02K	0	DYNAMO-ELECTRIC MACHINES (dynamo-electric relays H01H53/00; conversion of DC or AC input power into surge output power {H03K3/53})	
M	H02K1/06	1	characterised by the shape, form or construction	
M	H02K1/22	2	Rotating parts of the magnetic circuit	
M	H02K1/30	4	using intermediate parts, e.g. spiders	
M	H02K1/34	2	Reciprocating, oscillating or vibrating parts of the magnetic circuit	
M	H02K3/04	1	Windings characterised by the conductor shape, form or construction, e.g. with bar conductors	
M	H02K3/14	3	with transposed conductors, e.g. twisted conductors	
M	H02K3/16	3	for auxiliary purposes, e.g. damping or commutating	
M	H02K3/20	3	for auxiliary purposes, e.g. damping or commutating	
M	H02K3/24	2	with channels or ducts for cooling medium between the conductors	
M	H02K3/32	1	Windings characterised by the shape, form or construction of the insulation {(H02K3/46 takes precedence)}	
M	H02K3/40	2	for high voltage, e.g. affording protection against corona discharges	
M	H02K3/46	1	Fastening of windings on the stator or rotor structure	
M	H02K3/493	4	magnetic	
M	H02K 5/00	0	Casings; Enclosures; Supports	
M	H02K5/10	2	with arrangements for protection from ingress, e.g. of water or fingers {(means for protecting brushes or brush holders H02K5/14)}	
M	H02K5/124	3	Sealing of shafts	
M	H02K5/128	3	using air-gap sleeves or air-gap discs	
M	H02K5/132	3	Submersible electric motors (H02K5/128 takes precedence)	
M	H02K5/16	2	Means for supporting bearings, e.g. insulating supports or means for fitting bearings in the bearing-shields (magnetic bearings H02K7/09)	

CPC NOTICE OF CHANGES 322

DATE: NOVEMBER 1, 2016

PROJECT RP0251

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	H02K5/173	3	using bearings with rolling contact, e.g. ball bearings	
M	H02K5/22	2	Auxiliary parts of casings not covered by groups H02K5/06-H02K5/20, e.g. shaped to form connection boxes or terminal boxes	
M	H02K5/24	1	specially adapted for suppression or reduction of noise or vibrations {(elastic means for supporting brush holders H02K5/14; elastic means for supporting bearings H02K5/16)}	
M	H02K5/26	1	Means for adjusting casings relative to their supports	
M	H02K7/00	0	Arrangements for handling mechanical energy structurally associated with dynamo-electric machines, e.g. structural association with mechanical driving motors or auxiliary dynamo-electric machines	
M	H02K7/02	1	Additional mass for increasing inertia, e.g. flywheels	
M	H02K7/06	1	Means for converting reciprocating motion into rotary motion or vice versa	
M	H02K7/07	2	using pawls and ratchet wheels	
M	H02K7/075	2	using crankshafts or eccentrics	
M	H02K7/10	1	Structural association with clutches, brakes, gears, pulleys or mechanical starters	
M	H02K7/112	2	with friction clutches in combination with brakes	
M	H02K7/114	2	with dynamo-electric clutches in combination with brakes	
M	H02K7/118	2	with starting devices	
M	H02K7/12	2	with auxiliary limited movement of stators, rotors or core parts, e.g. rotors axially movable for the purpose of clutching or braking	
M	H02K7/14	1	Structural association with mechanical loads, e.g. with hand-held machine tools or fans ({H02K 7/006 takes precedence;}) with fan or impeller for cooling the machine H02K9/06)	
M	H02K7/16	2	for operation above the critical speed of vibration of the rotating parts	
M	H02K9/00	0	Arrangements for cooling or ventilating (channels or ducts in parts of the magnetic circuit H02K1/20, H02K1/32; channels or ducts in or between conductors H02K3/22, H02K 3/24)	
M	H02K9/04	2	having means for generating a flow of cooling	

CPC NOTICE OF CHANGES 322

DATE: NOVEMBER 1, 2016

PROJECT RP0251

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			medium	
M	H02K9/06	3	with fans or impellers driven by the machine shaft	
M	H02K9/19	1	for machines with closed casing and closed-circuit cooling using a liquid cooling medium, e.g. oil	
M	H02K9/22	1	by solid heat conducting material embedded in, or arranged in contact with, the stator or rotor, e.g. heat bridges	
M	H02K9/26	1	Structural association of machines with devices for cleaning or drying cooling medium, e.g. with filters	
M	H02K13/00	0	Structural associations of current collectors with motors or generators, e.g. brush mounting plates or connections to windings (supporting or protecting brushes or brush holders in motor casings or enclosures H02K 5/14); Disposition of current collectors in motors or generators; Arrangements for improving commutation	
M	H02K13/02	1	Connections between slip-rings and windings	
M	H02K13/04	1	Connections between commutator segments and windings	
M	H02K13/06	2	Resistive connections, e.g. by high-resistance chokes or by transistors	
M	H02K13/08	2	Segments formed by extensions of the winding	
M	H02K13/10	1	Arrangements of brushes or commutators specially adapted for improving commutation	
M	H02K13/12	1	Arrangements for producing an axial reciprocation of the rotor and its associated current collector part, e.g. for polishing commutator surfaces	
M	H02K13/14	1	Circuit arrangements for improvement of commutation, e.g. by use of unidirectionally conductive elements	
M	H02K15/00	0	Methods or apparatus specially adapted for manufacturing, assembling, maintaining or repairing of dynamo-electric machines	
M	H02K15/04	1	of windings, prior to mounting into machines (insulating windings H02K15/10, H02K15/12)	
M	H02K15/06	1	Embedding prefabricated windings in machines	
M	H02K15/08	1	Forming windings by laying conductors into or around core parts	
M	H02K15/10	1	Applying solid insulation to windings, stators or rotors	

CPC NOTICE OF CHANGES 322

DATE: NOVEMBER 1, 2016

PROJECT RP0251

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	H02K15/12	1	Impregnating, heating or drying of windings, stators, rotors or machines	
M	H02K15/16	1	Centering rotors within the stator; Balancing rotors	
M	H02K17/08	3	Motors with auxiliary phase obtained by externally fed auxiliary windings, e.g. capacitor motors	
M	H02K17/10	3	Motors with auxiliary phase obtained by split-pole carrying short-circuited windings	
M	H02K17/16	2	having rotors with internally short-circuited windings, e.g. cage rotors	
M	H02K17/18	3	having double-cage or multiple-cage rotors	
M	H02K17/20	3	having deep-bar rotors	
M	H02K17/22	2	having rotors with windings connected to slip-rings	
M	H02K17/24	3	in which both stator and rotor are fed with AC	
M	H02K17/26	2	having rotors or stators designed to permit synchronous operation	
M	H02K17/30	2	Structural association of asynchronous induction motors with auxiliary electric devices influencing the characteristics of the motor or controlling the motor, e.g. with impedances or switches	
M	H02K17/32	2	Structural association of asynchronous induction motors with auxiliary mechanical devices, e.g. with clutches or brakes	
M	H02K17/40	3	with a rotary AC/DC converter	
M	H02K17/44	2	Structural association with exciting machines	
M	H02K19/00	0	Synchronous motors or generators (having permanent magnets H02K 21/00)	
M	H02K19/08	3	Motors having windings on the stator and a smooth rotor without windings of material with large hysteresis, e.g. hysteresis motors	
M	H02K19/12	3	characterised by the arrangement of exciting windings, e.g. for self-excitation, compounding or pole-changing	
M	H02K19/14	2	having additional short-circuited windings for starting as asynchronous motors	
M	H02K19/18	2	having windings each turn of which co-operates only with poles of one polarity, e.g. homopolar generators	
M	H02K19/20	3	with variable-reluctance soft-iron rotors without winding	

CPC NOTICE OF CHANGES 322

DATE: NOVEMBER 1, 2016

PROJECT RP0251

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	H02K19/22	2	having windings each turn of which co-operates alternately with poles of opposite polarity, e.g. heteropolar generators	
M	H02K19/24	3	with variable-reluctance soft-iron rotors without winding	
M	H02K19/26	2	characterised by the arrangement of exciting windings	
M	H02K19/36	2	Structural association of synchronous generators with auxiliary electric devices influencing the characteristic of the generator or controlling the generator, e.g. with impedances or switches	
M	H02K19/38	2	Structural association of synchronous generators with exciting machines	
M	H02K21/00	0	Synchronous motors having permanent magnets ; Synchronous generators having permanent magnets	
M	H02K21/04	2	Windings on magnets for additional excitation {; Windings and magnets for additional excitation}	
M	H02K21/12	1	with stationary armatures and rotating magnets	
M	H02K21/14	2	with magnets rotating within the armatures	
M	H02K21/16	3	having annular armature cores with salient poles (with homopolar co-operation H02K21/20)	
M	H02K21/18	3	having horse-shoe armature cores (with homopolar co-operation H02K 21/20)	
M	H02K21/22	2	with magnets rotating around the armatures, e.g. flywheel magnetos	
M	H02K21/24	2	with magnets axially facing the armatures, e.g. hub-type cycle dynamos	
M	H02K21/26	1	with rotating armatures and stationary magnets	
M	H02K21/28	2	with armatures rotating within the magnets	
M	H02K21/30	3	having annular armature cores with salient poles (with homopolar co-operation H02K21/36)	
M	H02K21/32	3	having horse-shoe magnets (with homopolar co-operation H02K21/36)	
M	H02K21/34	3	having bell-shaped or bar-shaped magnets, e.g. for cycle lighting (with homopolar co-operation H02K 21/36)	
M	H02K21/38	1	with rotating flux distributors, and armatures and magnets both stationary	
M	H02K21/40	2	with flux distributors rotating around the magnets and within the armatures	
M	H02K21/42	2	with flux distributors rotating around the	

CPC NOTICE OF CHANGES 322

DATE: NOVEMBER 1, 2016

PROJECT RP0251

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			armatures and within the magnets	
M	H02K21/44	2	with armature windings wound upon the magnets	
M	H02K23/00	0	DC commutator motors or generators having mechanical commutator; Universal AC/DC commutator motors	
M	H02K23/02	1	characterised by arrangement for exciting	
M	H02K23/12	2	having excitation produced by current sources independent of the armature circuit	
M	H02K23/16	2	having angularly adjustable excitation field, e.g. by pole reversing or pole switching	
M	H02K23/20	2	having additional brushes spaced intermediately of the main brushes on the commutator, e.g. cross-field machines, metadynes, amplidynes or other armature-reaction excited machines	
M	H02K23/22	2	having compensating or damping windings	
M	H02K23/24	2	having commutating-pole windings	
M	H02K23/26	1	characterised by the armature windings	
M	H02K23/28	2	having open windings, i.e. not closed within the armatures	
M	H02K23/30	2	having lap windings ; having loop windings	
M	H02K23/36	2	having two or more windings; having two or more commutators; having two or more stators	
M	H02K23/40	1	characterised by the arrangement of the magnet circuits	
M	H02K23/44	2	having movable, e.g. turnable, iron parts	
M	H02K23/48	2	having adjustable armatures	
M	H02K23/52	1	Motors acting also as generators, e.g. starting motors used as generators for ignition or lighting	
M	H02K23/56	1	Motors or generators having iron cores separated from armature winding	
M	H02K23/58	1	Motors or generators without iron cores	
M	H02K23/60	1	Motors or generators having rotating armatures and rotating excitation field	
M	H02K23/62	1	Motors or generators with stationary armatures and rotating excitation field	
M	H02K23/64	1	Motors specially adapted for running on DC or AC by choice	
M	H02K25/00	0	DC interrupter motors or generators	
M	H02K27/00	0	AC commutator motors or generators having mechanical commutator	

CPC NOTICE OF CHANGES 322

DATE: NOVEMBER 1, 2016

PROJECT RP0251

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M	H02K27/28	1	Structural association with auxiliary electric devices influencing the characteristic of the machine or controlling the machine	
M	H02K29/00	0	Motors or generators having non-mechanical commutating devices, e.g. discharge tubes or semiconductor devices	
M	H02K31/00	0	Acyclic motors or generators, i.e. DC machines having drum or disc armatures with continuous current collectors	
M	H02K33/00	0	Motors with reciprocating, oscillating or vibrating magnet, armature or coil system (arrangements for handling mechanical energy structurally associated with motors H02K7/00, e.g. H02K7/06)	
M	H02K33/02	1	with armatures moved one way by energisation of a single coil system and returned by mechanical force, e.g. by springs	
M	H02K33/04	2	wherein the frequency of operation is determined by the frequency of uninterrupted AC energisation	
M	H02K33/06	3	with polarised armatures	
M	H02K33/08	3	with DC energisation superimposed on AC energisation	
M	H02K33/10	2	wherein the alternate energisation and de-energisation of the single coil system is effected or controlled by movement of the armatures	
M	H02K33/12	1	with armatures moving in alternate directions by alternate energisation of two coil systems	
M	H02K33/14	2	wherein the alternate energisation and de-energisation of the two coil systems are effected or controlled by movement of the armatures	
M	H02K33/16	1	with polarised armatures moving in alternate directions by reversal or energisation of a single coil system	
M	H02K33/18	1	with coil systems moving upon intermittent or reversed energisation thereof by interaction with a fixed field system, e.g. permanent magnets	
M	H02K35/00	0	Generators with reciprocating, oscillating or vibrating coil system, magnet, armature or other part of the magnetic circuit (arrangements for handling mechanical energy structurally associated with generators H02K7/00, e.g.	

CPC NOTICE OF CHANGES 322

DATE: NOVEMBER 1, 2016

PROJECT RP0251

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
			H02K7/06)	
M	H02K35/02	1	with moving magnets and stationary coil systems	
M	H02K35/04	1	with moving coil systems and stationary magnets	
M	H02K35/06	1	with moving flux distributors, and both coil systems and magnets stationary	
M	H02K37/02	1	of variable reluctance type	
M	H02K37/04	2	with rotors situated within the stators	
M	H02K37/06	2	with rotors situated around the stators	
M	H02K37/08	2	with rotors axially facing the stators	
M	H02K37/10	1	of permanent magnet type (H02K37/02 takes precedence)	
M	H02K37/12	2	with stationary armatures and rotating magnets	
M	H02K37/14	3	with magnets rotating within the armatures	
M	H02K37/16	4	having horseshoe armature cores	
M	H02K37/18	4	of homopolar type	
M	H02K37/20	2	with rotating flux distributors, the armatures and magnets both being stationary	
M	H02K41/035	2	DC motors; Unipolar motors	
M	H02K44/12	2	Constructional details of fluid channels	
M	H02K44/14	3	Circular or screw-shaped channels	
M	H02K44/16	2	Constructional details of the magnetic circuits	
M	H02K44/18	2	for generating AC power	
M	H02K47/02	1	AC/DC converters or vice versa	
M	H02K47/10	3	with booster machines on the AC side	
M	H02K47/12	1	DC/DC converters	
M	H02K47/18	1	AC/AC converters	
D	H02K57/00	0	<i>Dynamo-electric machines not provided for in groups H02K17/00 - H02K55/00</i>	<administrative transfer to H02K99/00>
D	H02K57/003	1	<i>{generators}</i>	<administrative transfer to H02K99/10>
D	H02K57/006	1	<i>{motors}</i>	<administrative transfer to H02K99/20>
N	H02K99/00	0	Subject matter not provided for in other groups of this subclass	
N	H02K99/10	1	<i>{Generators}</i>	
N	H02K99/20	1	<i>{Motors}</i>	

*N = new entries where reclassification into entries is involved; C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; E= existing entries with enlarged file scope, which receive documents from C or D entries, e.g. when a limiting reference is removed from the entry title; M = entries with no change to the file scope (no

CPC NOTICE OF CHANGES 322

DATE: NOVEMBER 1, 2016

PROJECT RP0251

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).
- For U groups, the minimum requirement is to include the U group located immediately prior to the N group or N group array, in order to show the N group hierarchy and improve the readability and understanding of the scheme. Always include the symbol, indent level and title of the U group in the table above.
- All entry types should be included in the scheme changes table above for better understanding of the overall scheme change picture. Symbol, indent level, and title are required for all types except “D” which requires only a symbol.
- #“Transferred to” column must be completed for all C, D, F, and Q type entries. F groups will be deleted once reclassification is completed.
- When multiple symbols are included in the “Transferred to” column, avoid using ranges of symbols in order to be as precise as possible.
- For administrative transfer of documents, the following text should be used: “< administrative transfer to XX>” or “<administrative transfer to XX and YY simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be “invention information”, unless otherwise indicated, and to 2000 series groups is assumed to be “additional information”.

CPC NOTICE OF CHANGES 322

DATE: NOVEMBER 1, 2016

PROJECT RP0251

B. New, Modified or Deleted Note(s)

SUBCLASS H02K - DYNAMO-ELECTRIC MACHINES

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	H02K subclass	<p>1. This subclass <u>covers</u> structural adaptation of the machine for the purposes of its control.</p> <p>2. This subclass <u>does not cover</u> starting, regulating, electronically commutating, braking, or otherwise controlling motors, generators or dynamo-electric converters, in general, which are covered by subclass H02P</p>	<p>1. This subclass covers the structural adaptation of dynamo-electric machines for the purpose of their control.</p> <p>2. This subclass does not cover starting, regulating, electronically commutating, braking, or otherwise controlling motors, generators or dynamo-electric converters, in general, which are covered by subclass H02P.</p>
N	H02K subclass		<p>3. Attention is drawn to the Notes following the titles of class B81 and subclass B81B relating to "micro-structural devices" and "micro-structural systems".</p>

*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.

2. A. DEFINITIONS (New)

H02K15/16

References

Informative references

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

Balancing in general	G01M
----------------------	------

H02K17/30

References

Informative references

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

Control arrangements external to the motor	H02P
--------------------------------------------	------

H02K 17/32

References

Informative references

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

Control arrangements external to the motor	H02P
--------------------------------------------	------

DATE: NOVEMBER 1, 2016

PROJECT RP0251

H02K27/28

References

Informative references

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

Control arrangements external to the motor	H02P
--------------------------------------------	----------------------

CPC NOTICE OF CHANGES 322

DATE: NOVEMBER 1, 2016

PROJECT RP0251

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>
H02K subclass	Definition Statement	<ul style="list-style-type: none"> • Dynamo-electric generators or motors, i.e. ac or dc continuously rotating, oscillating or linear machines; • Dynamo-electric converters, e.g. ac/dc converters and vice versa, ac/ac converters, dc/dc converters; 	<p>Replace with the following text:</p> <ul style="list-style-type: none"> • Dynamo-electric generators or motors, i.e. AC or DC continuously rotating, oscillating or linear machines; • Dynamo-electric converters, e.g. AC/DC converters and vice versa, AC/AC converters, DC/DC converters;
H02K subclass	Limiting references	Loudspeakers, microphones, gramophone pick-ups or like acoustic electromechanical transducers H04R	Delete the existing row (text and symbol).
H02K subclass	Limiting references	Conversion of dc or ac input power into surge output power H03K3/53	Delete the existing row (text and symbol).
H02K subclass	Informative references		<p>Insert the following new row:</p> <p>Conversion of DC or AC input power into surge output power H03K3/53</p>
H02K subclass	Informative references		<p>Insert the following new row:</p> <p>Loudspeakers, microphones, gramophone pick-ups or like acoustic electromechanical transducers H04R</p>
H02K subclass	Informative references	Electromagnetic bearings F16C39/04M	Delete the existing row (text and symbol).
H02K subclass	Informative references	<p><i>Informative references</i></p> <p>Attention is drawn to the following places, which may be of interest for search:</p> <p>Some of the relevant application-oriented places for machines of the type classified in H02K:</p>	<p>Convert the existing Informative references section heading and preambles to the following (keep the updated table stays):</p> <p><i>Application-oriented references</i></p> <p>Examples of places where the subject matter of this group is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:</p>

CPC NOTICE OF CHANGES 322

DATE: NOVEMBER 1, 2016

PROJECT RP0251

<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>
H02K subclass	Special Rules	Groups H02K1/00-H02K13/00 and H02K17/00-H02K57/00. Details or general arrangements only applicable to specific dynamoelectric machines of a single basic type, are classified in the group (H02K17/00-H02K57/00) The above mentioned rules for "special" machines covered by groups H02K 24/00 - H02K 26/00, H02K 31/00-H02K 35/00, H02K 41/00-H02K 57/00 are applied in the following way:	<u>Replace</u> with the following text: Groups H02K1/00-H02K13/00 and H02K17/00-H02K99/00 . Details or general arrangements only applicable to specific dynamoelectric machines of a single basic type, are classified in the group (H02K17/00-H02K99/00) The above mentioned rules for "special" machines covered by groups H02K24/00 - H02K26/00, H02K31/00-H02K35/00, H02K41/00-H02K 99/00 are applied in the following way:
H02K1/30			<u>Insert</u> the following new section: Informative references Magnetic parts fastened to the shaft by a thin layer of adhesive, positioned between the magnetic part and the shaft H02K1/28
H02K1/30	Limiting references		<u>Delete</u> the entire existing Limiting references section.
H02K5/132	Limiting references (2 nd column)	H02K5/1285	<u>Replace</u> with the following symbol: H02K5/128
H02K5/16	Informative References (2 nd column)	H02K7/09	<u>Delete</u> the symbol.
H02K7/112			<u>Insert</u> the following new section: Informative References Attention is drawn to the following places, which may be of interest for search: With auxiliary limited movement of stator, rotor, or core parts H02K7/12
H02K7/112	Limiting references	With auxiliary limited movement of stator, rotor, or core parts H02K7/12	<u>Delete</u> the entire existing Limiting references section.

CPC NOTICE OF CHANGES 322

DATE: NOVEMBER 1, 2016

PROJECT RP0251

<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>
H02K7/114			<u>Insert</u> the following <u>new</u> section: Informative References Attention is drawn to the following places, which may be of interest for search: With auxiliary limited movement of stator, rotor, or core parts H02K7/12
H02K7/114	<i>Limiting References</i>	With auxiliary limited movement of stator, rotor, or core parts H02K7/12	<u>Delete</u> the entire existing <i>Limiting references</i> section.
H02K7/118	<i>Limiting References</i>	With auxiliary limited movement of stator, rotor, or core parts H02K7/12	<u>Delete</u> the entire existing <i>Limiting references</i> section.
H02K7/118	<i>Informative References</i>		<u>Insert</u> the following <u>new</u> row: With auxiliary limited movement of stator, rotor, or core parts H02K7/12
H02K7/14	<i>Informative references</i>	Piston pumps driven by electric motors F04B35/00(S)	<u>Delete</u> the existing row (text and symbol).
H02K9/00	<i>Limiting References</i>	Channels or ducts in the casing H02K5/20	<u>Delete</u> the existing row (text and symbol).
H02K9/00			<u>Insert</u> the following <u>new</u> section: Informative References Attention is drawn to the following places, which may be of interest for search: Channels or ducts in the casing H02K5/20
H02K9/06			<u>Insert</u> the following <u>new</u> section: Informative References Attention is drawn to the following places, which may be of interest for search: Cooling channels between salient poles working as ventilators H02K1/325
H02K9/06	<i>Limiting references</i>	Cooling channels between salient poles working as ventilators H02K1/325	<u>Delete</u> the entire existing <i>Limiting references</i> section.

CPC NOTICE OF CHANGES 322

DATE: NOVEMBER 1, 2016

PROJECT RP0251

<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>
H02K9/22	<i>Informative references</i>	Radiators of sheet metal B21C53/04	Delete the existing row (text and symbol).
H02K15/04	<i>Informative References</i>	Insulating windings H02K15/10, H02K15/12	Delete the existing row (text and symbol).
H02K15/04			Insert the following <u>new</u> section: Limiting references <i>This place does not cover:</i> Insulating windings H02K15/10, H02K15/12
H02K17/40			Insert the following <u>new</u> section: Informative References <i>Attention is drawn to the following places, which may be of interest for search:</i> Cascade AC/DC converters H02K47/06
H02K17/40	<i>Limiting references</i>	Cascade ac/dc converters H02K47/06	Delete the entire existing <i>Limiting references</i> section.
H02K21/00			Insert the following <u>new</u> section: Informative References <i>Attention is drawn to the following places, which may be of interest for search:</i> Details of stator cores with permanent magnets H02K1/17 Details of rotor cores with permanent magnets H02K1/27
H02K21/00	<i>Limiting references</i>		Delete the entire existing <i>Limiting references</i> section.
H02K23/64	Definition Statement	only specific adaptation for running under dc/ac by choice, e.g. switches to select a particular circuit	Replace with the following text: only specific adaptation for running under DC/AC by choice, e.g. switches to select a particular circuit

CPC NOTICE OF CHANGES 322

DATE: NOVEMBER 1, 2016

PROJECT RP0251

<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>
H02K27/00	<i>Limiting references</i>	Universal ac/dc motors	<u>Replace</u> with the following: Universal AC/DC motors
H02K33/00			<u>Insert</u> the following <u>new</u> section: <i>Limiting References</i> <i>This place does not cover.</i> Arrangements for handling mechanical energy structurally associated with motors H02K7/00, H02K7/06
H02K33/00	<i>Informative references</i>	Arrangements for handling mechanical energy structurally associated with motors H02K7/00, H02K7/06	<u>Delete</u> the existing row (text and symbol).
H02K35/00			<u>Insert</u> the following <u>new</u> section: <i>Limiting References</i> Arrangements for handling mechanical energy structurally associated with generators H02K7/00, H02K7/06, H02K7/1876
H02K35/00	<i>Informative references</i>	Arrangements for handling mechanical energy structurally associated with generators H02K7/00, e.g. H02K7/06, H02K7/1876	<u>Delete</u> the entire <i>Informative references</i> section.
H02K57/00			<u>Delete</u> 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 322

DATE: NOVEMBER 1, 2016

PROJECT RP0251

3. REVISION CONCORDANCE LIST (RCL)

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol (new)</u>
D	H02K57/00	<administrative transfer to H02K99/00>
D	H02K57/003	<administrative transfer to H02K99/10>
D	H02K57/006	<administrative transfer to H02K99/20>

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

NOTES:

- Only C, D, F and Q type entries are included in the table above.
- When multiple symbols are included in the “To” column, avoid using ranges of symbols in order to be as precise as possible.
- For administrative transfer of documents, the following text should be used: “< administrative transfer to XX>” or “<administrative transfer to XX and YY simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be “invention information”, unless otherwise indicated, and to 2000 series groups is assumed to be “additional information”.

CPC NOTICE OF CHANGES 322

DATE: NOVEMBER 1, 2016

PROJECT RP0251

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H02K57/00		DELETE
H02K57/003		DELETE
H02K57/006		DELETE
H02K99/00	H02K99/00	NEW
H02K99/10	H02K99/00	NEW
H02K99/20	H02K99/00	NEW

*Action column:

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

NOTES:

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

CPC NOTICE OF CHANGES 322

DATE: NOVEMBER 1, 2016

PROJECT RP0251

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>
B60K6/00	H02K57/00	H02K99/00
B81B3/0021	H02K57/00	H02K99/00

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>
B81B5/00	H02K57/00	Informative Reference	H02K99/00
H02K16/00	H02K57/00	Special Rules	H02K99/00
H02K51/00	H02K57/00	Special Rules	H02K99/00

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.