

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 920

DATE: AUGUST 1, 2020

PROJECT RP0472

**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:	F05B	2220/3021, 2220/3022, 2220/3023, 2220/3025, 2220/303, 2220/304, 2220/305, 2220/306, 2220/307, 2220/308, 2220/309, 2220/33, 2220/80, 2220/90
	F05B	2240/34, 2240/35, 2240/36
	F05B	2270/105, 2270/1051, 2270/106, 2270/1061, 2270/1062, 2270/1063, 2270/1064, 2270/108, 2270/1081, 2270/10812, 2270/10815, 2270/10817, 2270/1101, 2270/1102, 2270/15, 2270/16, 2270/31
	F05B	2280/4008
Symbols New:	F05B	2220/703, 2220/705
	F05B	2240/303, 2240/304, 2240/3042, 2240/305, 2240/3052, 2240/306, 2240/3062, 2240/307, 2240/37, 2240/372, 2240/374, 2240/85, 2240/9172, 2240/9174, 2240/9176, 2240/965
	F05B	2250/44
	F05B	2260/04, 2260/31, 2260/40312, 2260/422, 2260/87
	F05B	2270/1077, 2270/202, 2270/204, 2270/3202, 2270/34, 2270/341, 2270/342
Titles Changed:	F05B	SUBCLASS
	F05B	2220/702, 2220/704
	F05B	2240/96
	F05B	2280/4003
<b>DEFINITIONS:</b>		
Definitions Modified:	F03B	13/06

**No other subclasses/groups are impacted by this Notice of Changes.**

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

1. CLASSIFICATION SCHEME CHANGES

- A. New, Modified or Deleted Group(s)
- B. New, Modified or Deleted Warning(s)
- C. New, Modified or Deleted Note(s)
- D. New, Modified or Deleted Guidance Heading(s)

2. DEFINITIONS

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- A. New or Modified Definitions (Full definition template)
- B. Modified or Deleted Definitions (Definitions Quick Fix)
- 3.  REVISION CONCORDANCE LIST (RCL)
- 4.  CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)
- 5.  CHANGES TO THE CROSS-REFERENCE LIST (CRL)

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## 1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

**SUBCLASS F05B - INDEXING SCHEME RELATING TO MACHINES OR ENGINES OTHER THAN NON-POSITIVE-DISPLACEMENT MACHINES OR ENGINES, TO WIND MOTORS, TO NON-POSITIVE DISPLACEMENT PUMPS, AND TO GENERATING COMBUSTION PRODUCTS OF HIGH PRESSURE OR HIGH VELOCITY**

<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	F05B	subclass	INDEXING SCHEME RELATING TO WIND, SPRING, WEIGHT, INERTIA OR LIKE MOTORS, TO MACHINES OR ENGINES FOR LIQUIDS COVERED BY SUBCLASSES F03B, F03D AND F03G	
D	F05B 2220/3021	3	for a special turbine stage	<no transfer>
D	F05B 2220/3022	4	the first stage of a turbine	<no transfer>
D	F05B 2220/3023	4	an intermediate stage of the turbine	<no transfer>
D	F05B 2220/3025	4	the last stage of the turbine	<no transfer>
D	F05B 2220/303	3	for aircraft propulsion, e.g. jet engines	<no transfer>
D	F05B 2220/304	3	to drive unshrouded, low solidity propeller	<no transfer>
D	F05B 2220/305	3	to drive unshrouded, high solidity propeller	<no transfer>
D	F05B 2220/306	3	to drive shrouded, low solidity propeller	<no transfer>
D	F05B 2220/307	3	to drive shrouded, high solidity propeller	<no transfer>
D	F05B 2220/308	3	providing direct vertical lift	<no transfer>
D	F05B 2220/309	3	in a helicopter	<no transfer>
D	F05B 2220/33	2	specially adapted for the fan of turbofan engines	<no transfer>
M	F05B 2220/702	2	the other apparatus being a steam turbine	
N	F05B 2220/703	2	the other apparatus being a water turbine	
M	F05B 2220/704	2	the other apparatus being a gas turbine	

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
N	F05B 2220/705	2	the other apparatus being a wind turbine	
D	F05B 2220/80	1	in supersonic vehicles excluding hypersonic vehicles or ram, scram or rocket propulsion	<no transfer>
D	F05B 2220/90	1	in vehicles adapted for vertical or short take off and landing (v/stol vehicles), (gas turbines providing direct vertical lift F05B2220/308)	<no transfer>
U	F05B 2240/302	3	Segmented or sectional blades	
N	F05B 2240/303	3	Details of the leading edge	
N	F05B 2240/304	3	Details of the trailing edge	
N	F05B 2240/3042	4	Serrated trailing edge	
N	F05B 2240/305	3	Flaps, slats or spoilers	
N	F05B 2240/3052	4	adjustable	
N	F05B 2240/306	3	Surface measures	
N	F05B 2240/3062	4	Vortex generators	
N	F05B 2240/307	3	Blade tip, e.g. winglets	
U	F05B 2240/33	2	Shrouds which are part of or which are rotating with the rotor	
D	F05B 2240/34	2	with auxiliary or secondary rotors attached to blades of main rotor	<administrative transfer to F05B 2240/374>
D	F05B 2240/35	1	Combustors or associated equipment	<no transfer>
D	F05B 2240/36	2	Fuel vaporizer	<no transfer>
N	F05B 2240/37	2	Multiple rotors	
N	F05B 2240/372	3	coaxially arranged	
N	F05B 2240/374	3	Auxiliary rotors attached to blades of main rotor	
U	F05B 2240/801	2	cooled platforms	
N	F05B 2240/85	1	Electrical connection arrangements	
N	F05B 2240/9172	4	of kite type with traction and retraction	
N	F05B 2240/9174	4	of kite type with a turbine and a flying pattern	

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
N	F05B 2240/9176	4	Wing, kites or buoyant bodies with a turbine attached without flying pattern	
M	F05B 2240/96	2	as part of a wind turbine farm	
N	F05B 2240/965	2	as part of a water turbine farm	
U	F05B 2250/43	2	with three degrees of freedom	
N	F05B 2250/44	2	one element moving inside another one, e.g. wave-operated member (wom) moving inside another member (rem)	
U	F05B 2260/02	1	Transport, e.g. specific adaptations or devices for conveyance (transport of wind turbines or equipments therefore F03D 13/40)	
N	F05B 2260/04	1	Deployment, e.g. installing underwater structures	
U	F05B 2260/305	2	Reducing friction between regenerative impeller discs and casing walls	
N	F05B 2260/31	2	Locking rotor in position	
U	F05B 2260/40311	4	of the epicyclic, planetary or differential type	
N	F05B 2260/40312	4	Ratchet wheels	
U	F05B 2260/421	2	in the form of rotational kinetic energy, e.g. in flywheels	
N	F05B 2260/422	2	in the form of potential energy, e.g. pressurized or pumped fluid	
U	F05B 2260/85	1	Starting	
N	F05B 2260/87	1	Using a generator as a motor	
D	F05B 2270/105	2	to improve fuel economy	<no transfer>
D	F05B 2270/1051	3	in particular at idling speed	<no transfer>
D	F05B 2270/106	2	to produce clean exhaust gases	<no transfer>
D	F05B 2270/1061	3	with as little smoke as possible	<no transfer>
D	F05B 2270/1062	3	with as little NOx's as possible	<no transfer>
D	F05B 2270/1063	3	by monitoring combustion conditions	<no transfer>
D	F05B 2270/1064	4	indirectly, at the exhaust	<no transfer>

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<b>Type*</b>	<b>Symbol</b>	<b>Indent Level Number of dots (e.g. 0, 1, 2)</b>	<b>Title “CPC only” text should normally be enclosed in {curly brackets}**</b>	<b>Transferred to#</b>
U	F05B 2270/1076	3	caused by water or hail ingestion	
N	F05B 2270/1077	3	Storm protection	
D	F05B 2270/108	2	to cope with, or avoid, compressor flow instabilities	<no transfer>
D	F05B 2270/1081	3	Compressor surge or stall	<no transfer>
D	F05B 2270/10812	4	caused by working fluid flow velocity profile distortion	<no transfer>
D	F05B 2270/10815	5	due to high angle of attack of aircraft	<no transfer>
D	F05B 2270/10817	5	due to compressor degradation	<no transfer>
D	F05B 2270/1101	3	Altitude	<no transfer>
D	F05B 2270/1102	3	Speed or Mach number	<no transfer>
D	F05B 2270/15	2	to control thermoacoustic behaviour in the combustion chambers (counteracting noise or vibration F05B2260/96)	<no transfer>
D	F05B 2270/16	2	to control water or steam injection	<no transfer>
U	F05B 2270/20	2	to optimise the performance of a machine	
N	F05B 2270/202	3	Tuning to wave conditions	
N	F05B 2270/204	3	taking into account the wake effect	
D	F05B 2270/31	2	Fuel schedule for stage combustors	<no transfer>
U	F05B 2270/3201	3	"cut-off" or "shut-down" wind speed	
N	F05B 2270/3202	3	“cut-in” or starting wind speed	
U	F05B 2270/337	2	Electrical grid status parameters, e.g. voltage, frequency or power demand	
N	F05B 2270/34	2	Water level	
N	F05B 2270/341	2	Liquid flow velocity or direction	
N	F05B 2270/342	2	Wave conditions, e.g. amplitude, frequency or direction	
M	F05B 2280/4003	2	Synthetic polymers, e.g. plastics	
D	F05B 2280/4008	2	Polyamides, e.g. Aurum	< administrative transfer to F05B2280/4006>

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

#### NOTES:

- \*\*No {curly brackets} are used for titles in CPC only subclasses, e.g. C12Y, A23Y; 2000 series symbol titles of groups found at the end of schemes (orthogonal codes); or the Y section titles. The {curly brackets} are used for 2000 series symbol titles found interspersed throughout the main trunk schemes (breakdown codes).
- U groups: it is obligatory to display the required “anchor” symbol (U group), i.e. the entry immediately preceding a new group or an array of new groups to be created (in case new groups are not clearly subgroups of C-type groups). Always include the symbol, indent level and title of the U group in the table above.
- All entry types should be included in the scheme changes table above for better understanding of the overall scheme change picture. Symbol, indent level, and title are required for all types.
- “Transferred to” column must be completed for all C, D, F, and Q type entries. F groups will be deleted once reclassification is completed.
- When multiple symbols are included in the “Transferred to” column, avoid using ranges of symbols in order to be as precise as possible.
- For administrative transfer of documents, the following text should be used: “< administrative transfer to XX>”, “<administrative transfer to XX and YY simultaneously>”, or “<administrative transfer to XX, YY, ...and ZZ simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be “additional information”.
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations “ADD” or “INV”: <administrative transfer to XX ADD> , <administrative transfer to XX INV>, or < administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the “D” entries of 2000-series or Y-series groups may not require a destination (“Transferred to”) symbol, however it is required to specify “<no transfer>” in the “Transferred to” column for such cases.
- For finalisation projects, the deleted “F” symbols should have <no transfer> in the “Transferred to” column.
- For more details about the types of scheme change, see CPC Guide.

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2. B. DEFINITIONS QUICK FIX

<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
F03B 13/06	Informative references	Turbines having means for functioning as pumps F03B3/10	<u>Delete</u> : The following Informative references table row.  Turbines having means for functioning as pumps F03B 3/10
F03B 13/06	Limiting references		<u>Insert</u> : The following new Limiting references section.  <b>Limiting references</b> <i>This place does not cover:</i>  Turbines having means for functioning as pumps <b>F03B 3/10</b>

NOTES:

- The table above is used for corrections or modifications to existing definitions, e.g. delete an entire definition or part thereof; propose new wording or modify wording of a section, change the symbol the definition is associated with, change or delete a reference symbol, etc.
- Do not delete (F) symbol definitions.



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3. REVISION CONCORDANCE LIST (RCL)

<b>Type*</b>	<b>From CPC Symbol (existing)</b>	<b>To CPC Symbol(s)</b>
D	F05B 2220/3021	<no transfer>
D	F05B 2220/3022	<no transfer>
D	F05B 2220/3023	<no transfer>
D	F05B 2220/3025	<no transfer>
D	F05B 2220/303	<no transfer>
D	F05B 2220/304	<no transfer>
D	F05B 2220/305	<no transfer>
D	F05B 2220/306	<no transfer>
D	F05B 2220/307	<no transfer>
D	F05B 2220/308	<no transfer>
D	F05B 2220/309	<no transfer>
D	F05B 2220/33	<no transfer>
D	F05B 2220/80	<no transfer>
D	F05B 2220/90	<no transfer>
D	F05B 2240/34	<administrative transfer to F05B 2240/374>
D	F05B 2240/35	<no transfer>
D	F05B 2240/36	<no transfer>
D	F05B 2270/105	<no transfer>
D	F05B 2270/1051	<no transfer>
D	F05B 2270/106	<no transfer>
D	F05B 2270/1061	<no transfer>
D	F05B 2270/1062	<no transfer>
D	F05B 2270/1063	<no transfer>
D	F05B 2270/1064	<no transfer>
D	F05B 2270/108	<no transfer>
D	F05B 2270/1081	<no transfer>
D	F05B 2270/10812	<no transfer>
D	F05B 2270/10815	<no transfer>
D	F05B 2270/10817	<no transfer>
D	F05B 2270/1101	<no transfer>
D	F05B 2270/1102	<no transfer>
D	F05B 2270/15	<no transfer>
D	F05B 2270/16	<no transfer>
D	F05B 2270/31	<no transfer>
D	F05B 2280/4008	< administrative transfer to F05B 2280/4006>

\* 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.

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- 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.

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F05B 2220/3021		DELETE
F05B 2220/3022		DELETE
F05B 2220/3023		DELETE
F05B 2220/3025		DELETE
F05B 2220/303		DELETE
F05B 2220/304		DELETE
F05B 2220/305		DELETE
F05B 2220/306		DELETE
F05B 2220/307		DELETE
F05B 2220/308		DELETE
F05B 2220/309		DELETE
F05B 2220/33		DELETE
F05B 2220/703	CPCONLY	NEW
F05B 2220/705	CPCONLY	NEW
F05B 2220/80		DELETE
F05B 2220/90		DELETE
F05B 2240/303	CPCONLY	NEW
F05B 2240/304	CPCONLY	NEW
F05B 2240/3042	CPCONLY	NEW
F05B 2240/305	CPCONLY	NEW
F05B 2240/3052	CPCONLY	NEW
F05B 2240/306	CPCONLY	NEW
F05B 2240/3062	CPCONLY	NEW
F05B 2240/307	CPCONLY	NEW
F05B 2240/34		DELETE
F05B 2240/35		DELETE
F05B 2240/36		DELETE
F05B 2240/37	CPCONLY	NEW
F05B 2240/372	CPCONLY	NEW
F05B 2240/374	CPCONLY	NEW
F05B 2240/85	CPCONLY	NEW
F05B 2240/9172	CPCONLY	NEW
F05B 2240/9174	CPCONLY	NEW
F05B 2240/9176	CPCONLY	NEW
F05B 2240/965	CPCONLY	NEW
F05B 2250/44	CPCONLY	NEW
F05B 2260/04	CPCONLY	NEW
F05B 2260/31	CPCONLY	NEW
F05B 2260/40312	CPCONLY	NEW
F05B 2260/422	CPCONLY	NEW
F05B 2260/87	CPCONLY	NEW
F05B 2270/105		DELETE
F05B 2270/1051		DELETE
F05B 2270/106		DELETE

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F05B 2270/1061		DELETE
F05B 2270/1062		DELETE
F05B 2270/1063		DELETE
F05B 2270/1064		DELETE
F05B 2270/1077	CPCONLY	NEW
F05B 2270/108		DELETE
F05B 2270/1081		DELETE
F05B 2270/10812		DELETE
F05B 2270/10815		DELETE
F05B 2270/10817		DELETE
F05B 2270/1101		DELETE
F05B 2270/1102		DELETE
F05B 2270/15		DELETE
F05B 2270/16		DELETE
F05B 2270/202	CPCONLY	NEW
F05B 2270/204	CPCONLY	NEW
F05B 2270/31		DELETE
F05B 2270/3202	CPCONLY	NEW
F05B 2270/34	CPCONLY	NEW
F05B 2270/341	CPCONLY	NEW
F05B 2270/342	CPCONLY	NEW
F05B 2280/4008		DELETE

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