

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 638

DATE: FEBRUARY 1, 2019

PROJECT RP0586

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Symbols Deleted:	F02M	2051/08
Symbols New:	F02M	7/23
	F02M	51/08
Titles Changed:	F02M	subclass
	F02M	1/14
	F02M	3/00, 3/09
	F02M	5/12
	F02M	7/02, 7/10, 7/133, 7/24
	F02M	9/06
	F02M	15/00
	F02M	17/00, 17/16, 17/34, 17/52
	F02M	19/00, 19/03, 19/12
	F02M	21/02, 21/04, 21/06, 21/08, 21/12
	F02M	25/00
	F02M	26/50, 26/63
	F02M	29/04
	F02M	31/00, 31/02, 31/07, 31/20
	F02M	33/00
	F02M	35/00, 35/10, 35/112, 35/116, 35/16
	F02M	37/00, 37/04
	F02M	39/00, 39/02
	F02M	45/00
	F02M	47/00
	F02M	51/02
	F02M	59/00, 59/20, 59/362, 59/46
	F02M	61/04, 61/20
	F02M	69/00, 69/18, 69/20, 69/30, 69/38
	F02M	71/00, 71/02
Indents Changed:	F02M	19/03
Warnings New:	F02M	7/06, 7/08, 7/083, 7/087, 7/093, 7/10, 7/103, 7/106, 7/11, 7/17, 7/23
	F02M	9/06, 9/065
	F02M	29/02, 29/04

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<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
	F02M	31/02, 31/04, 31/042, 31/045, 31/047, 31/06, 31/062, 31/064, 31/066, 31/068, 31/07, 31/08, 31/0805, 31/081, 31/0815, 31/082, 31/0825, 31/083, 31/087, 31/093, 31/10, 31/102, 31/105, 31/107, 31/12, 31/125, 31/13, 31/135, 31/14, 31/145, 31/16, 31/163, 31/166, 31/18, 31/183, 31/186
	F02M	35/108, 35/1085, 35/112, 35/116, 35/1165
	F02M	39/00, 39/005
	F02M	49/00
	F02M	51/06, 51/08
	F02M	71/00
Warnings Modified:	F02M	subclass
	F02M	37/30
Guidance Headings Modified:	F02M	1/00
DEFINITIONS:		
Definitions New:	F02M	5/12
	F02M	7/02
	F02M	17/16
	F02M	19/03
	F02M	21/02, 21/04, 21/06
	F02M	29/04
	F02M	35/02, 35/16
	F02M	37/04
	F02M	61/04
Definitions Modified:	F02M	subclass
	F02M	3/00
	F02M	13/00
	F02M	15/00
	F02M	17/00
	F02M	19/00
	F02M	25/00
	F02M	31/00
	F02M	35/00
	F02M	37/00
	F02M	39/00
	F02M	45/00
	F02M	47/00
	F02M	51/02, 51/06
	F02M	59/00
	F02M	69/00, 69/30
	F02M	71/00

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

This Notice of Changes includes the following:

1. CLASSIFICATION SCHEME CHANGES

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

2. DEFINITIONS

- A. New or Modified Definitions (Full definition template)
- B. Modified or Deleted Definitions (Definitions Quick Fix)

3. REVISION CONCORDANCE LIST (RCL)

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

5. CHANGES TO THE CROSS-REFERENCE LIST (CRL)

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS F02M - SUPPLYING COMBUSTION ENGINES IN GENERAL, WITH COMBUSTIBLE MIXTURES OR CONSTITUENTS THEREOF

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of</u> <u>dots (e.g. 0,</u> <u>1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be</u> <u>enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	F02M	subclass	SUPPLYING COMBUSTION ENGINES IN GENERAL WITH COMBUSTIBLE MIXTURES OR CONSTITUENTS THEREOF	
M	F02M 1/14	2	dependent on pressure in combustion-air- or fuel-air-mixture intake (dependent on both pressure in combustion-air or fuel-air-mixture intake and engine temperature F02M 1/10)	
M	F02M 3/00	0	Idling devices for carburettors (with means for facilitating engine’s idling below operational temperatures F02M 1/00)	
M	F02M 3/09	2	Valves responsive to engine conditions, e.g. manifold vacuum (carburettors with means for facilitating engine's idling below operational temperatures F02M 1/00)	
M	F02M 5/12	1	Other details, e.g. floats, valves, setting devices or tools	
M	F02M 7/02	1	Carburettors having aerated fuel spray nozzles	
C	F02M 7/06	1	Means for enriching charge on sudden {air} throttle opening, i.e. at acceleration, e.g. storage means in passage way system	F02M7/06, F02M 71/00, F02M71/02, F02M71/04
C	F02M 7/08	2	using pumps	F02M7/08, F02M 71/00, F02M71/02, F02M71/04
C	F02M 7/083	3	{a pump sucking fuel from the conduit system leading to the spray nozzle downstream of the metering cross-section during deceleration}	F02M7/083, F02M 71/00, F02M71/02, F02M71/04
C	F02M 7/087	3	changing output according to temperature in engine	F02M7/087, F02M 71/00, F02M71/02, F02M71/04
C	F02M 7/093	3	changing output according to intake vacuum	F02M7/093, F02M 71/00, F02M71/02, F02M71/04
C	F02M 7/10	1	Other installations, without moving parts, for influencing fuel/air ratio, e.g. electrical means (fuel aerating devices for influencing fuel/air ratio F02M 7/23)	F02M7/10, F02M7/23, F02M7/24, F02M7/245, F02M7/26, F02M7/28
C	F02M 7/103	2	{with self-acting equaliser jets}	F02M7/103, F02M7/23, F02M7/24, F02M7/245, F02M7/26, F02M7/28

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C	F02M 7/106	2	{Fluid amplifier as a device for influencing the fuel-air mixture}	F02M7/106, F02M7/23, F02M7/24, F02M7/245, F02M7/26, F02M7/28
C	F02M 7/11	2	Altering float-chamber pressure (enriching the fuel-air mixture during starting by depressing float to flood carburettor F02M 1/18)	F02M7/11, F02M7/23, F02M7/24, F02M7/245, F02M7/26, F02M7/28
M	F02M 7/133	2	Auxiliary jets, i.e. operating only under certain conditions, e.g. full power (means for enriching charge at high combustion-air flow F02M 7/04; means for enriching charge on sudden throttle opening, i.e. at acceleration F02M 7/06)	
E	F02M 7/17	4	by a pneumatically adjustable piston-like element, e.g. constant depression carburettors	
U	F02M 7/225	3	{The fuel orifice opening is controlled by a manually actuatable throttle valve so as to vary the cross-sectional area of the orifice}	
N	F02M 7/23	1	Fuel aerating devices	
E	F02M 7/24	2	Controlling flow of aerating air	
E	F02M 7/245	3	{Accessories, e.g. sieves, accelerating wheels, whirl generating devices and the like, for the intimate mixing of emulsifying air with fuel}	
E	F02M 7/26	3	dependent on position of optionally operable throttle means	
E	F02M 7/28	3	dependent on temperature or pressure	
C	F02M 9/06	2	with means for varying cross-sectional area of fuel spray nozzle dependent on throttle position (installations, operated automatically by a pneumatically adjustable piston-like element, for influencing fuel/air ratio F02M 7/17)	F02M 9/06, F02M 7/17
C	F02M 9/065	3	{Automatically and not automatically controlled throttle valves operating mutually}	F02M 9/065, F02M 7/17
U	F02M 13/00	0	Arrangements of two or more separate carburettors (re-atomising condensed fuel or homogenising fuel-air mixture F02M 29/00); Carburettors using more than one fuel (apparatus for adding small quantities of secondary fuel F02M 25/00)	
M	F02M 15/00	0	Carburettors with heating, cooling or thermal insulating means for combustion-air, fuel, or fuel-air mixture	

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M	F02M 17/00	0	Carburettors having pertinent characteristics not provided for in, or of interest apart from, the apparatus of preceding main groups F02M 1/00 - F02M 15/00 (apparatus for treating combustion-air, fuel, or fuel-air mixture by catalysts, electric means, magnetism, rays, sonic waves, or the like F02M 27/00; combinations of carburettors and low-pressure fuel-injection apparatus F02M 71/00)	
M	F02M 17/16	1	Carburettors having continuously-rotating bodies, e.g. surface carburettors	
M	F02M 17/34	1	Other carburettors combined or associated with other apparatus, e.g. air filters	
M	F02M 17/52	1	Use of cold, produced by carburettors, for other purposes	
M	F02M 19/00	0	Details, component parts, or accessories of carburettors, not provided for in, or of interest apart from, the apparatus of groups F02M 1/00 - F02M 17/00	
M	F02M 19/03	1	Fuel atomising nozzles; Arrangement of emulsifying air conduits	
M	F02M 19/12	1	External control gear, e.g. having dash-pots (dampening means in later stages of multi-stage carburettors F02M 11/04)	
M	F02M 21/02	1	for gaseous fuels	
M	F02M 21/04	2	Gas-air mixing apparatus	
M	F02M 21/06	2	Apparatus for de-liquefying, e.g. by heating	
M	F02M 21/08	1	for non-gaseous fuels	
M	F02M 21/12	1	for fuels in pulverised state	
M	F02M 25/00	0	Engine-pertinent apparatus for adding non-fuel substances or small quantities of secondary fuel to combustion-air, main fuel or fuel-air mixture (adding secondary air to fuel-air mixture F02M 23/00; adding exhaust gases F02M 26/00; fuel-injection apparatus operating simultaneously on two or more fuels or on a liquid fuel and another liquid F02M 43/00)	
M	F02M 26/50	1	Arrangements or methods for preventing or reducing deposits, corrosion or wear caused by impurities (arrangement or layout of EGR passages with means for cleaning or treating the recirculated gases F02M 26/35; protection of EGR valves from damage F02M 26/74)	

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M	F02M 26/63	2	the EGR valve being directly controlled by an operator (the EGR valve being operated together with an intake air throttle F02M 26/64)	
C	F02M 29/02	1	having rotary parts {, e.g. fan wheels}	F02M29/02, F02M29/04, F02M29/06, F02M29/08, F02M29/10
E	F02M 29/04	1	having screens, gratings, baffles or the like	
M	F02M 31/00	0	Apparatus for thermally treating combustion-air, fuel, or fuel-air mixture (carburetors with heating, cooling or thermal insulating means for combustion-air, fuel or fuel-air mixture F02M 15/00; apparatus for de-liquefying non-liquid fuels by heating F02M 21/06; apparatus having heating means for non-gaseous fuels with low melting point F02M 21/10; apparatus characterised by adding hot secondary air to fuel-air mixture F02M 23/14; fuel-injection apparatus characterised by having heating, cooling or thermally insulating means F02M 53/00)	
C	F02M 31/02	1	for heating ({F02M 31/005 takes precedence;} for purifying liquid fuel F02M 37/30)	F02M31/02, F02M37/30
C	F02M 31/04	2	combustion-air or fuel-air mixture (electrically F02M31/12; by using heat from working cylinders or cylinder heads F02M31/14; heating of combustion-air as an engine starting aid F02N7/04)	F02M31/04, F02M37/30
C	F02M 31/042	3	{Combustion air}	F02M31/042, F02M37/30
C	F02M 31/045	3	{Fuel-air mixture}	F02M31/045, F02M37/30
C	F02M 31/047	4	{for fuel enriched partial mixture flow path}	F02M31/047, F02M37/30
C	F02M 31/06	3	by hot gases, e.g. by mixing cold and hot air	F02M31/06, F02M37/30
C	F02M 31/062	4	{with thermostat and pneumatic actuator both working on the air mixture control valve}	F02M31/062, F02M37/30
C	F02M 31/064	4	{pneumatically controlled (F02M31/062 takes precedence)}	F02M31/064, F02M37/30
C	F02M 31/066	4	{operated manually, e.g. by means of valves on the air filter}	F02M31/066, F02M37/30
C	F02M 31/068	4	{particular constructional aspects of the switching devices, e.g. connecting linkage between two control valves}	F02M31/068, F02M37/30
C	F02M 31/07	4	Temperature-responsive control, e.g. using thermostatically-controlled valves (temperature-responsive control of the amount of exhaust gas or combustion air directed to the heat exchange surface F02M 31/083)	F02M31/07, F02M37/30

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C	F02M 31/08	4	the gases being exhaust gases {(adding exhaust gases to the air intake passage F02M 26/00)}	F02M31/08, F02M37/30
C	F02M 31/0805	5	{Pneumatic control of the amount of exhaust gas or combustion air directed to the heat exchange surfaces, e.g. as a function of the pressure in the air intake passage}	F02M31/0805, F02M37/30
C	F02M 31/081	5	{Manual switching of the fluids directed to the heat exchange surfaces}	F02M31/081, F02M37/30
C	F02M 31/0815	5	{Heat exchange surfaces arranged inside a flange}	F02M31/0815, F02M37/30
C	F02M 31/082	5	{Particular shape of air input passage near to the branch}	F02M31/082, F02M37/30
C	F02M 31/0825	5	{Particular constructional characteristics of the heat exchange surfaces, e.g. finned pipes, coiled pipes or the like}	F02M31/0825, F02M37/30
C	F02M 31/083	5	Temperature-responsive control of the amount of exhaust gas or combustion air directed to the heat exchange surface	F02M31/083, F02M37/30
C	F02M 31/087	5	Heat-exchange arrangements between the air intake and exhaust gas passages, e.g. by means of contact between the passages	F02M31/087, F02M37/30
C	F02M 31/093	6	Air intake passage surrounding the exhaust gas passage; Exhaust gas passage surrounding the air intake passage	F02M31/093, F02M37/30
C	F02M 31/10	3	by hot liquids, e.g. lubricants {or cooling water}	F02M31/10, F02M37/30
C	F02M 31/102	4	{Particular constructional characteristics of the shape of the heat exchange surfaces}	F02M31/102, F02M37/30
C	F02M 31/105	4	{Particular constructional characteristics of the switching apparatus}	F02M31/105, F02M37/30
C	F02M 31/107	4	{Controlled or manual switching}	F02M31/107, F02M37/30
C	F02M 31/12	2	electrically	F02M31/12, F02M37/30
C	F02M 31/125	3	Fuel	F02M31/125, F02M37/30
C	F02M 31/13	3	Combustion air	F02M31/13, F02M37/30
C	F02M 31/135	3	Fuel-air mixture	F02M31/135, F02M37/30
C	F02M 31/14	2	by using heat from working cylinders or cylinder heads	F02M31/14, F02M37/30
C	F02M 31/145	3	{with particular constructional means}	F02M31/145, F02M37/30
C	F02M 31/16	2	Other apparatus for heating fuel	F02M31/16, F02M37/30
C	F02M 31/163	3	{Preheating by burning an auxiliary mixture}	F02M31/163, F02M37/30
C	F02M 31/166	3	{with mechanical generation of heat, e.g. by surface friction}	F02M31/166, F02M37/30
C	F02M 31/18	3	to vaporise fuel	F02M31/18, F02M37/30
C	F02M 31/183	4	{Control}	F02M31/183, F02M37/30
C	F02M 31/186	4	{with simultaneous mixing of secondary air}	F02M31/186, F02M37/30

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M	F02M 31/20	1	for cooling ({F02M 31/005 takes precedence; use of cold F02M 17/52;} cooling of charging-air or of scavenging-air F02B 29/04)	
M	F02M 33/00	0	Other apparatus for treating combustion-air, fuel or fuel-air mixture (combustion-air cleaners F02M 35/00; arrangements for purifying liquid fuel F02M 37/22)	
M	F02M 35/00	0	Combustion-air cleaners, air intakes, intake silencers, or induction systems specially adapted for, or arranged on, internal-combustion engines	
M	F02M 35/10	1	Air intakes; Induction systems	
C	F02M 35/108	3	with primary and secondary intake passages	F02M35/108, F02M35/112, F02M35/116, F02M35/1165
C	F02M 35/1085	4	{the combustion chamber having multiple intake valves (modifying induction systems for imparting a rotation to the charge in the cylinder and having multiple air inlets F02B31/08; shape or arrangement of intake or exhaust channels in cylinder heads F02F1/42)}	F02M35/1085, F02M35/112, F02M35/116, F02M35/1165
E	F02M 35/112	3	for engines with cylinders all in one line	
E	F02M 35/116	3	for engines with cylinders in V-arrangement or arranged oppositely relative to the main shaft	
M	F02M 35/16	1	characterised by use in vehicles	
M	F02M 37/00	0	Apparatus or systems for feeding liquid fuel from storage containers to carburettors or fuel-injection apparatus; Arrangements for purifying liquid fuel specially adapted for, or arranged on, internal-combustion engines	
M	F02M 37/04	1	Feeding by means of driven pumps	
C	F02M 39/00	0	Arrangements of fuel-injection apparatus with respect to engines; Pump drives adapted to such arrangements (fuel-injection apparatus in which injection pumps are driven, or injectors are actuated, by the pressure in engine working cylinders, or by impact of engine working piston F02M 49/00; arrangements of injectors F02M 61/14)	F02M39/00, F02M49/00, F02M49/02, F02M49/04
C	F02M 39/005	1	{Arrangements of fuel feed-pumps with respect to fuel injection apparatus (F02M37/00 takes precedence)}	F02M39/005, F02M49/00, F02M49/02, F02M49/04

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M	F02M 39/02	1	Arrangements of fuel-injection apparatus to facilitate the driving of pumps; Arrangements of fuel-injection pumps; Pump drives	
M	F02M 45/00	0	Fuel-injection apparatus characterised by having a cyclic delivery of specific time/pressure or time/quantity relationship {(pumps having such delivery by means of delivery valves F02M 59/462)}	
M	F02M 47/00	0	Fuel-injection apparatus operated cyclically with fuel-injection valves actuated by fluid pressure (fuel- injectors actuated by the pressure in engine working cylinders F02M 49/00)	
M	F02M 51/02	1	specially for low-pressure fuel-injection ({F02M 51/005 takes precedence;} pumps <u>per se</u> F02M 51/04; injectors <u>per se</u> F02M 51/08)	
C	F02M 51/06	1	Injectors peculiar thereto {with means directly operating the valve needle}	F02M 51/06, F02M 51/08
D	F02M 2051/08	2	{Specially for low-pressure fuel-injection}	<administrative transfer to F02M51/08 INV>
N	F02M 51/08	2	specially for low-pressure fuel-injection	
M	F02M 59/00	0	Pumps specially adapted for fuel-injection and not provided for in groups F02M 39/00 - F02M 57/00 {, e.g. rotary cylinder-block type of pumps}	
M	F02M 59/20	1	Varying fuel delivery in quantity or timing	
M	F02M 59/362	4	{Rotary valves}	
M	F02M 59/46	2	Valves	
M	F02M 61/04	1	having valves {, e.g. having a plurality of valves in series}	
M	F02M 61/20	2	Closing valves mechanically, e.g. arrangements of springs or weights {or permanent magnets; Damping of valve lift}	
M	F02M 69/00	0	Low-pressure fuel-injection apparatus {; Apparatus with both continuous and intermittent injection; Apparatus injecting different types of fuel}	

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M	F02M 69/18	2	the means being metering valves throttling fuel passages to injectors or by-pass valves throttling overflow passages, the metering valves being actuated by a device responsive to the engine working parameters, e.g. engine load, speed, temperature or quantity of air (the means varying fuel pressure in a fuel by-pass passage, the pressure acting on a throttle valve against the action of metered or throttled fuel pressure for variably throttling fuel flow to injection nozzles F02M 69/26)	
M	F02M 69/20	3	the device being a servo-motor, e.g. using engine intake air pressure or vacuum (the actuating device comprising a member movably mounted in the air intake conduit and displaced according to the quantity of air admitted to the engine F02M 69/22)	
M	F02M 69/30	1	characterised by means for facilitating the starting-up or idling of engines or by means for enriching fuel charge, e.g. below operational temperatures or upon high power demand of engines	
M	F02M 69/38	3	using fuel pressure, e.g. by varying fuel pressure in the control chambers of the fuel metering device (the means varying fuel pressure in a fuel by-pass passage, the pressure acting on a throttle valve against the action of metered or throttled fuel pressure for variably throttling fuel flow to injection nozzles F02M 69/26)	
E	F02M 71/00	0	Combinations of carburettors and low-pressure fuel-injection apparatus	
E	F02M 71/02	1	with fuel-air mixture being produced by the carburettor and being compressed by a pump for subsequent injection into main combustion-air	

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

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NOTES:

- **No { curly brackets } are used for titles in CPC only subclasses, e.g. C12Y, A23Y; 2000 series symbol titles of groups found at the end of schemes (orthogonal codes); or the Y section titles. The { curly brackets } are used for 2000 series symbol titles found interspersed throughout the main trunk schemes (breakdown codes).
- 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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B. New, Modified or Deleted Warning(s)

SUBCLASS F02M - SUPPLYING COMBUSTION ENGINES IN GENERAL, WITH COMBUSTIBLE MIXTURES OR CONSTITUENTS THEREOF

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
M	F02M	<ol style="list-style-type: none"> The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups: F02M7/23 covered by F02M 7/103 F02M51/08 covered by F02M 51/06 In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme. 	<p>Replace old warnings 1 and 2 with the modified (new) warning shown below.</p> <ol style="list-style-type: none"> {In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.}
N	F02M 7/06		Group F02M 7/06 is impacted by reclassification into groups F02M 71/00, F02M 71/02, and F02M 71/04. All groups listed in this Warning should be considered in order to perform a complete search.
N	F02M 7/08		Group F02M 7/08 is impacted by reclassification into groups F02M 71/00, F02M 71/02, and F02M 71/04. All groups listed in this Warning should be considered in order to perform a complete search.
N	F02M 7/083		Group F02M 7/083 is impacted by reclassification into groups F02M 71/00, F02M 71/02, and F02M 71/04. All groups listed in this Warning should be considered in order to perform a complete search.
N	F02M 7/087		Group F02M 7/087 is impacted by reclassification into groups F02M 71/00, F02M 71/02, and F02M 71/04. All groups listed in this Warning should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	F02M 7/093		Group F02M 7/093 is impacted by reclassification into groups F02M 71/00, F02M 71/02, and F02M 71/04. All groups listed in this Warning should be considered in order to perform a complete search.
N	F02M 7/10		Group F02M 7/10 is impacted by reclassification into groups F02M 7/23, F02M 7/24, F02M 7/245, F02M 7/26, and F02M 7/28. All groups listed in this Warning should be considered in order to perform a complete search.
N	F02M 7/103		Group F02M 7/103 is impacted by reclassification into groups F02M 7/23, F02M 7/24, F02M 7/245, F02M 7/26, and F02M 7/28. All groups listed in this Warning should be considered in order to perform a complete search.
N	F02M 7/106		Group F02M 7/106 is impacted by reclassification into groups F02M 7/23, F02M 7/24, F02M 7/245, F02M 7/26, and F02M 7/28. All groups listed in this Warning should be considered in order to perform a complete search.
N	F02M 7/11		Group F02M 7/11 is impacted by reclassification into groups F02M 7/23, F02M 7/24, F02M 7/245, F02M 7/26, and F02M 7/28. All groups listed in this Warning should be considered in order to perform a complete search.
N	F02M 7/17		Group F02M 7/17 is incomplete pending reclassification of documents from groups F02M 9/06 and F02M 9/065. Groups F02M 9/06, F02M 9/065, and F02M 7/17 should be considered in order to perform a complete search.
N	F02M 7/23		Groups F02M 7/23, F02M 7/24, F02M 7/245, F02M 7/26, and F02M 7/28 are incomplete pending reclassification of documents from groups F02M 7/10, F02M 7/103, F02M 7/106, and F02M 7/11. All groups listed in this Warning should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	F02M 9/06		Group F02M 9/06 is impacted by reclassification into group F02M 7/17. Groups F02M 9/06 and F02M 7/17 should be considered in order to perform a complete search.
N	F02M 9/065		Group F02M 9/065 is impacted by reclassification into group F02M 7/17. Groups F02M 9/065 and F02M 7/17 should be considered in order to perform a complete search.
N	F02M 29/02		Group F02M 29/02 is impacted by reclassification into groups F02M 29/04, F02M 29/06, F02M 29/08, and F02M 29/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F02M 29/04		Groups F02M 29/04, F02M 29/06, F02M 29/08, and F02M 29/10 are incomplete pending reclassification of documents from group F02M 29/02. Groups F02M 29/02 and F02M 29/04 should be considered in order to perform a complete search.
N	F02M 31/02		Group F02M 31/02 is impacted by reclassification into group F02M 37/30. Groups F02M 31/02 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/04		Group F02M 31/04 is impacted by reclassification into group F02M 37/30. Groups F02M 31/04 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/042		Group F02M 31/042 is impacted by reclassification into group F02M 37/30. Groups F02M 31/042 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/045		Group F02M 31/045 is impacted by reclassification into group F02M 37/30. Groups F02M 31/045 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/047		Group F02M 31/047 is impacted by reclassification into group F02M 37/30. Groups F02M 31/047 and F02M 37/30 should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	F02M 31/06		Group F02M 31/06 is impacted by reclassification into group F02M 37/30. Groups F02M 31/06 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/062		Group F02M 31/062 is impacted by reclassification into group F02M 37/30. Groups F02M 31/062 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/064		Group F02M 31/064 is impacted by reclassification into group F02M 37/30. Groups F02M 31/064 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/066		Group F02M 31/066 is impacted by reclassification into group F02M 37/30. Groups F02M 31/066 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/068		Group F02M 31/068 is impacted by reclassification into group F02M 37/30. Groups F02M 31/068 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/07		Group F02M 31/07 is impacted by reclassification into group F02M 37/30. Groups F02M 31/07 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/08		Group F02M 31/08 is impacted by reclassification into group F02M 37/30. Groups F02M 31/08 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/0805		Group F02M 31/0805 is impacted by reclassification into group F02M 37/30. Groups F02M 31/0805 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/081		Group F02M 31/081 is impacted by reclassification into group F02M 37/30. Groups F02M 31/081 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/0815		Group F02M 31/0815 is impacted by reclassification into group F02M 37/30. Groups F02M 31/0815 and F02M 37/30 should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	F02M 31/082		Group F02M 31/082 is impacted by reclassification into group F02M 37/30. Groups F02M 31/082 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/0825		Group F02M 31/0825 is impacted by reclassification into group F02M 37/30. Groups F02M 31/0825 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/083		Group F02M 31/083 is impacted by reclassification into group F02M 37/30. Groups F02M 31/083 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/087		Group F02M 31/087 is impacted by reclassification into group F02M 37/30. Groups F02M 31/087 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/093		Group F02M 31/093 is impacted by reclassification into group F02M 37/30. Groups F02M 31/093 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/10		Group F02M 31/10 is impacted by reclassification into group F02M 37/30. Groups F02M 31/10 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/102		Group F02M 31/102 is impacted by reclassification into group F02M 37/30. Groups F02M 31/102 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/105		Group F02M 31/105 is impacted by reclassification into group F02M 37/30. Groups F02M 31/105 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/107		Group F02M 31/107 is impacted by reclassification into group F02M 37/30. Groups F02M 31/107 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/12		Group F02M 31/12 is impacted by reclassification into group F02M 37/30. Groups F02M 31/12 and F02M 37/30 should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	F02M 31/125		Group F02M 31/125 is impacted by reclassification into group F02M 37/30. Groups F02M 31/125 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/13		Group F02M 31/13 is impacted by reclassification into group F02M 37/30. Groups F02M 31/13 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/135		Group F02M 31/135 is impacted by reclassification into group F02M 37/30. Groups F02M 31/135 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/14		Group F02M 31/14 is impacted by reclassification into group F02M 37/30. Groups F02M 31/14 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/145		Group F02M 31/145 is impacted by reclassification into group F02M 37/30. Groups F02M 31/145 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/16		Group F02M 31/16 is impacted by reclassification into group F02M 37/30. Groups F02M 31/16 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/163		Group F02M 31/163 is impacted by reclassification into group F02M 37/30. Groups F02M 31/163 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/166		Group F02M 31/166 is impacted by reclassification into group F02M 37/30. Groups F02M 31/166 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/18		Group F02M 31/18 is impacted by reclassification into group F02M 37/30. Groups F02M 31/18 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 31/183		Group F02M 31/183 is impacted by reclassification into group F02M 37/30. Groups F02M 31/183 and F02M 37/30 should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	F02M 31/186		Group F02M 31/186 is impacted by reclassification into group F02M 37/30. Groups F02M 31/186 and F02M 37/30 should be considered in order to perform a complete search.
N	F02M 35/108		Group F02M 35/108 is impacted by reclassification into groups F02M 35/112, F02M 35/116, and F02M 35/1165. All groups listed in this Warning should be considered in order to perform a complete search.
N	F02M 35/1085		Group F02M 35/1085 is impacted by reclassification into groups F02M 35/112, F02M 35/116, and F02M 35/1165. All groups listed in this Warning should be considered in order to perform a complete search.
N	F02M 35/112		Group F02M 35/112 is incomplete pending reclassification of documents from groups F02M 35/108 and F02M 35/1085. Groups F02M 35/108, F02M 35/1085, and F02M 35/112 should be considered in order to perform a complete search.
N	F02M 35/116		Group F02M 35/116 is incomplete pending reclassification of documents from groups F02M 35/108 and F02M 35/1085. Groups F02M 35/108, F02M 35/1085, and F02M 35/116 should be considered in order to perform a complete search.
N	F02M 35/1165		Group F02M 35/1165 is incomplete pending reclassification of documents from groups F02M 35/108 and F02M 35/1085. Groups F02M 35/108, F02M 35/1085, and F02M 35/1165 should be considered in order to perform a complete search.
M	F02M 37/30	Group F02M 37/30 is incomplete pending reclassification of documents from groups F02M 37/22 and F02M 37/24. Groups F02M 37/22, F02M 37/24, and F02M 37/30 should be considered in order to perform a complete search.	Group F02M 37/30 is incomplete pending reclassification of documents from groups F02M 31/02, F02M 31/04, F02M 31/042, F02M 31/045, F02M 31/047, F02M 31/06, F02M 31/062, F02M 31/064, F02M 31/066, F02M 31/068, F02M 31/07, F02M 31/08, F02M 31/0805, F02M 31/081, F02M 31/0815, F02M 31/082, F02M 31/0825, F02M 31/083, F02M 31/087, F02M 31/093, F02M 31/10,

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			F02M 31/102, F02M 31/105, F02M 31/107, F02M 31/12, F02M 31/125, F02M 31/13, F02M 31/135, F02M 31/14, F02M 31/145, F02M 31/16, F02M 31/163, F02M 31/166, F02M 31/18, F02M 31/183, F02M 31/186, F02M 37/22, and F02M 37/24. All groups listed in this Warning should be considered in order to perform a complete search.
N	F02M 39/00		Group F02M 39/00 is impacted by reclassification into groups F02M 49/00, F02M 49/02, and F02M 49/04. All groups listed in this Warning should be considered in order to perform a complete search.
N	F02M 39/005		Group F02M 39/005 is impacted by reclassification into groups F02M 49/00, F02M 49/02, and F02M 49/04. All groups listed in this Warning should be considered in order to perform a complete search.
N	F02M 49/00		Groups F02M 49/00, F02M 49/02, and F02M 49/04 are incomplete pending reclassification of documents from groups F02M 39/00 and F02M 39/005. Groups F02M 39/00, F02M 39/005, and F02M 49/00 should be considered in order to perform a complete search.
N	F02M 51/06		Group F02M 51/06 is impacted by reclassification into group F02M 51/08. Groups F02M 51/06 and F02M 51/08 should be considered in order to perform a complete search.
N	F02M 51/08		Group F02M 51/08 is incomplete pending reclassification of documents from group F02M 51/06. Groups F02M 51/06 and F02M 51/08 should be considered in order to perform a complete search.
N	F02M 71/00		Groups F02M 71/00, F02M 71/02, and F02M 71/04 are incomplete pending reclassification of documents from groups F02M 7/06, F02M 7/08, F02M 7/083, F02M 7/087, and F02M 7/093. All groups listed in this Warning should be considered in order to perform a complete search.

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*N = new warning, M = modified warning, D = deleted warning

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

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

SUBCLASS F02M - SUPPLYING COMBUSTION ENGINES IN GENERAL, WITH COMBUSTIBLE MIXTURES OR CONSTITUENTS THEREOF

<u>Type*</u>	<u>Location</u>	<u>Old Guidance Heading</u>	<u>New/Modified Guidance Heading</u>
M	F02M 1/00 – F02M 19/00	Carburettors (for gaseous fuels F02M 21/00; combined with low- pressure fuel-injection apparatus F02M71/00)	Carburettors for liquid fuels

*N = new guidance heading, M =modified guidance heading, D = deleted guidance heading

NOTES:

- The “Location” column requires the symbol AFTER the guidance heading location. No further directions such as “before” or “after” are required.
- In cases where there may be confusion as to whether a new group falls within the scope of a guidance heading, indicate the guidance heading and whether the group does or does not go with the guidance heading. This can be included in the “Location” column. For example, the guidance heading “Compounds containing carbon together with sulfur, selenium or tellurium with or without hydrogen, halogens, oxygen or nitrogen” encompasses groups C07C 301/00-395/00 only. If a new group C07C 398/00 is proposed and is included in the guidance heading scope, indicate this in the “Location” column as follows: 398/00 to be included under the guidance heading: “Compounds containing carbon together with sulfur, selenium or tellurium with or without hydrogen, halogens, oxygen or nitrogen.”

2. A. DEFINITIONS (new)

Insert the following new definitions.

F02M 5/12

References

Informative references

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

Floats in general	F16K 33/00
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F02M 7/02

References

Informative references

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

With valve control for amount of air for aerating fuel	F02M 7/24
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F02M 17/16**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Fuel injection by centrifugal forces	F02M 69/06
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F02M 19/03**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Atomising in general	B05B
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F02M 21/02**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Apparatus for vaporising liquid fuel by heat	F02M 31/00
Engines with apparatus generating gas from solid fuel, e.g. from wood	F02B 43/08

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F02M 21/04

References

Informative references

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

Carburettors adapted to use liquid and gaseous fuels	F02M 13/08
Carburettor gases in general	C10J

F02M 21/06

References

Informative references

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

Discharging liquefied gases in general	F17C
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F02M 29/04

References

Informative references

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

Rotary	F02M 29/02
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F02M 35/02

References

Informative references

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

Air cleaners in general	B01D
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F02M 35/16

References

Informative references

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

Predominant vehicle aspects, see the relevant classes for the vehicles	B60, B61, B62, B63
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F02M 37/04

Definition statement

This place covers:

Feeding liquid fuel from storage containers to carburettors or fuel-injection apparatus by means of driven pumps.

References

Informative References

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

Pump construction	F04
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F02M 61/04

Definition statement

This place covers:

Fuel-injectors not provided for in groups [F02M 39/00](#) - [F02M 57/00](#) or [F02M 67/00](#) having valves, e.g. having a plurality of valves in series.

References

Informative References

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

Valves in general	F16K
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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>
F02M			<p>Insert the following <u>new</u> Informative references section:</p> <p>References Informative references</p> <p><i>Attention is drawn to the following places, which may be of interest for search:</i></p> <p>Internal-combustion piston engines; Combustion engines in general F02B</p>
F02M 3/00	Limiting References	Carburettors with means for influencing, e.g. enriching or keeping constant, fuel/air ratio of charge under varying conditions F02M 7/00	<p>Delete the following row from the Limiting references table.</p> <p>Carburettors with means for influencing, e.g. enriching or keeping constant, fuel/air ratio of charge under varying conditions F02M 7/00</p>
F02M 3/00	Informative References		<p>Insert the following <u>new</u> row in the Informative references table.</p> <p>Carburettors with means for influencing, e.g. enriching or keeping constant, fuel/air ratio of charge under varying conditions F02M 7/00</p>
F02M 13/00	Limiting References	Multi-stage carburettors F02M11/00	<p>Delete the following row from the Limiting references table.</p> <p>Multi-stage carburettors F02M 11/00</p>

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<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>
F02M 13/00	Informative References		<p>Insert the following <u>two new</u> rows in the Informative references table.</p> <p>Multi-stage carburettors F02M 11/00</p> <p>Apparatus for testing, tuning, or synchronising carburetors F02M 19/01</p>
F02M 15/00	Limiting References	<p>Carburettors with means for facilitating engine's starting or its idling below operational temperatures F02M 1/00</p> <p>Heating, cooling, or thermally insulating float apparatus F02M 5/00</p> <p>Apparatus for thermally treating combustion-air, fuel, or fuel-air mixture not being part of a carburettor F02M 31/00</p>	<p>Delete the entire Limiting references section: heading, preamble, and table.</p>
F02M 15/00	Informative References		<p>Insert the following <u>three new</u> rows in the existing Informative references table.</p> <p>Carburettors with means for facilitating engine's starting or its idling below operational temperatures F02M 1/00</p> <p>Heating, cooling, or thermally insulating float apparatus F02M 5/00</p> <p>Apparatus for thermally treating combustion-air, fuel, or fuel-air mixture not being part of a carburettor F02M 31/00</p>
F02M 17/00	Informative references		<p>Delete the <u>entire</u> Informative references section: heading, preamble, and table.</p>

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<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>
F02M 19/00	Definition Statement	Details of carburettors, e.g. metering orifices, spray nozzles, venturis, external control gear.	Replace the existing statement: "Details of carburetors ... external control gear." with the following statement: Residual group for details of carburettors which are not covered by main groups F02M 1/00 – F02M 17/00. This group covers, e.g. metering orifices, spray nozzles, venturis, external control gear.
F02M 19/00	Limiting References	Aspects from preceding groups F02M1/00- F02M17/00 Measuring or testing apparatus in general G01	Delete the entire Limiting references section: heading, preamble, and table.
F02M 19/00	Informative References		Insert: The following <u>new</u> row in the Informative references table: Measuring or testing apparatus in general G01
F02M 25/00	Limiting References	Fuel injection apparatus working simultaneously on two or more fuels F02M 43/00	Replace: <u>Only the text</u> in the existing row (not the symbol): Fuel-injection apparatus operating simultaneously on two or more fuels or on a liquid fuel and another liquid
F02M 31/00	Limiting References	Such apparatus being part of the carburettor F02M 15/00	Replace: <u>Only the text</u> in the existing row (not the symbol): Carburettors with heating, cooling or thermal insulating means for combustion-air, fuel, or fuel-air mixture
F02M 31/00	Limiting References	Apparatus for de-liquefying gas by heating F02M 21/06	Replace: <u>Only the text</u> in the existing row (not the symbol): Apparatus for de-liquefying non-liquid fuels by heating

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<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>
F02M 31/00	Limiting References	Heating means for fuels with low melting point F02M 21/10	Replace: <u>Only the text</u> in the row (not the symbol): Apparatus having heating means for non-gaseous fuels with low melting point
F02M 31/00	Limiting References	Adding hot secondary air to the fuel-air mixture F02M 23/14	Replace: <u>Only the text</u> in the row (not the symbol): Apparatus characterised by adding hot secondary air to fuel-air mixture
F02M 31/00	Limiting References	Such apparatus being part of the fuel injection apparatus F02M 53/00	Replace: <u>Only the text</u> in the row (not the symbol): Fuel-injection apparatus characterised by having heating, cooling or thermally insulating means
F02M 35/00	Limiting References	Air cleaners in general B01D	Delete: The entire Limiting references section: heading preamble, and table.
F02M 35/00	Informative References		Insert: The following <u>new</u> row in the Informative references table: Air cleaners in general B01D
F02M 37/00	Definition Statement	Apparatus or systems for feeding liquid fuel from storage containers to carburettors or fuel-injection apparatus, like pumps, fuel conduits and venting means.	Replace: The existing statement in the Definition statement section with the following: Apparatus or systems for feeding liquid fuel from storage containers to carburettors or fuel-injection apparatus, like pumps, fuel conduits and venting means, including fuel return lines.
F02M 37/00	Relationships with other classification places	Fuel injection apparatus characterized by their conduits and venting means, F02M55/00	Delete: The Relationships with other classification places section: heading and text.

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<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>
F02M 37/00			<p>Insert: The following <u>new</u> Informative references section:</p> <p><i>Informative references</i></p> <p><i>Attention is drawn to the following places, which may be of interest for search:</i></p> <p>Arrangements for purifying liquid fuel specially adapted for, or arranged on, internal-combustion engines B01D</p> <p>Centrifuges B04B</p> <p>Control of fuel feeding F02D 33/003</p> <p>Fuel injection apparatus characterized by their conduits and venting means F02M 55/00</p> <p>Fuel injection apparatus having a common rail F02M 63/0225</p> <p>Low-pressure fuel-injection apparatus F02M 69/00</p> <p>Feeding liquid fuel to combustion apparatus, in general F23K 5/00</p> <p>Fuel supply to apparatus for generating combustion products of high pressure or high velocity F23R 3/28</p>
F02M 37/00	Limiting References	<p>Fuel injection apparatus having a common rail F02M 63/0225</p> <p>Arrangements for purifying liquid fuel specially adapted for, or arranged on, internal-combustion engines B01D</p> <p>Centrifuges B04B</p>	<p>Delete: The entire Limiting references section: heading preamble, and table.</p>

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<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>
		Control of fuel feeding F02D 33/003 Feeding liquid fuel to combustion apparatus, in general F23K 5/00 Fuel supply to apparatus for generating combustion products of high pressure or high velocity F23R 3/28	
F02M 37/00			Insert the following <u>new</u> Application-oriented references section: <i>Application-oriented references</i> <i>Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:</i> Fuel supply to apparatus for generating combustion products of high pressure or high velocity F23R 3/28
F02M 39/00	Limiting References		Insert the following <u>new</u> row in the Limiting references table. Fuel-injection apparatus in which injection pumps are driven, or injectors are actuated, by the pressure in engine working cylinders, or by impact of engine working piston F02M 49/00
F02M 45/00	Limiting References	Controlling fuel injection F02D41/30	Replace the existing row in the Limiting references table with the following <u>new</u> row: Pumps having such delivery by means of delivery valves F02M 59/462

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<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>
F02M 45/00			<p>Insert the following <u>new</u> Informative references section.</p> <p><i>Informative references</i></p> <p><i>Attention is drawn to the following places, which may be of interest for search:</i></p> <p>Controlling fuel injection F02D 41/30</p> <p>Fuel-injectors having such deliveries by means of valves furnished at seated ends with pintle- or plug-shaped extensions F02M 61/06</p>
F02M 47/00	Limiting References	Fuel-injection apparatus in which injection pumps are driven or injectors are actuated, by the pressure in engine working cylinder, or by impact by engine working piston F02M49/00	<p>Replace the first row in the Limiting references table with the following <u>new</u> row:</p> <p>Fuel-injectors actuated by the pressure in engine working cylinders</p> <p>F02M 49/00</p>
F02M 47/00	Limiting References	<p>Fuel injectors with spring for needle closing and using fluid for assisting the spring force F02M61/205</p> <p>Fuel injection valves opened by fuel pressure and closed by non-fluid means F02M 63/04</p>	<p>Delete the following <u>two</u> rows from the Limiting references table:</p> <p>Fuel injectors with spring for needle closing and using fluid for assisting the spring force F02M 61/205</p> <p>Fuel injection valves opened by fuel pressure and closed by non-fluid means F02M 63/04</p>
F02M 47/00	Informative References		<p>Insert the following <u>new</u> row in the Informative references table:</p> <p>Fuel injectors with spring for needle closing and using fluid for assisting the spring force F02M 61/205</p>

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<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>
F02M 47/00	Informative References	Apparatus with injection valves opened by fuel pressure and closed by non-fluid means F02M63/04	Replace the existing row with the following row: Fuel injection valves held closed by a cyclically-operated mechanism for a time and automatically opened by fuel pressure F02M 63/04
F02M 51/02	Limiting references	Pumps per se F02M 51/04	Replace the existing row with the following <u>new</u> row: Fuel injection apparatus characterised by pumps F02M 51/04
F02M 51/02	Limiting references	Injectors per se F02M 51/06	Replace the existing row with the following <u>new</u> row: Low pressure fuel injection apparatus characterised by injectors F02M 51/08
F02M 51/06	Limiting references	Fluid pressure operated valve needles F02M 47/027, F02M 63/0003	Delete the entire Limiting references section: heading, preamble, and table.
F02M 51/06	Informative references		Insert the following <u>new</u> row in the Informative references table: Fluid pressure operated valve needles F02M 47/027, F02M 63/0003
F02M 51/06	Informative references	F02M2063/0082	Delete the invalid symbol from the existing row in the Limiting references table: F02M2063/0082
F02M 59/00	Definition Statement	Details of the pumps of F02M41/00, F02M43/00, F02M51/00.	Delete the first statement in the Definition statement section.
F02M 59/00			Insert the following <u>new</u> Special rules of classification section:

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<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>
			<p>Special rules of classification</p> <p>Besides the subject-matter covered by the main group title, this place also covers details of the pumps classified in F02M 41/00, F02M 43/00, F02M 51/00.</p>
F02M 59/00	Definition Statement	<p>Plunger sealing, valve structure, materials etc: F02M59/44 - F02M59/485.</p> <p>The structure of this group is close to the general layout of the IPC classification, i.e. it comprises a constructional part (groups F02M59/02-F02M59/18), a functional part (groups F02M59/20-F02M59/42) and general part with details, manufacturing (F02M59/44 - F02M59/485).</p>	<p>Replace: The <u>second</u> and <u>third</u> statements in the Definition statement section with the following:</p> <p>Pumps specially adapted for fuel-injection and not provided for in groups F02M 39/00 - F02M 57/00. For further subject-matter covered, see the section "Special rules of classification".</p> <p>The structure of this group comprises:</p> <ul style="list-style-type: none"> • a constructional part (groups F02M 59/02 - F02M 59/18), • a functional part (groups F02M 59/20 - F02M 59/42), and • a general part with details, e.g. plunger sealing, valve structure, materials, manufacturing aspects (F02M 59/44 - F02M 59/485).
F02M 59/00	Limiting References	Rotary distributor type pumps, dual fluid pumps and electrically driven pumps F02M41/00, F02M43/00, F02M51/00	Delete the entire Limiting references section: heading, preamble, and table.
F02M 59/00	Informative References		<p>Insert the following <u>new</u> Informative references section:</p> <p>Informative references</p> <p><i>Attention is drawn to the following places, which may be of interest for search:</i></p> <p>Rotary distributor type pumps, dual fluid pumps and electrically driven pumps F02M 41/00, F02M 43/00, F02M 51/00</p>

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<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>
			General features of pumps F04
F02M 69/00	Definition Statement	Low pressure fuel injection apparatuses. That normally means gasoline fuel injection.	Replace first <u>two</u> sentences in the Definition statement section with the following: Low pressure fuel injection apparatuses including such apparatus with both continuous and intermittent injection, and apparatus injecting different types of fuel. Low pressure fuel injection normally means gasoline fuel injection.
F02M 69/00	Limiting Reference	Details of gasoline fuel injection apparatus F02M41/00 - F02M63/00 High pressure gasoline common rail fuel injection systems F02M63/0225 Specific cases and the injection of fuel in the air inlet manifold F02M69/00	Delete the entire Limiting references section: heading, preamble, and table.
F02M 69/00			Insert the following <u>new</u> Informative references section: <i>Informative references</i> <i>Attention is drawn to the following places, which may be of interest for search:</i> Details of gasoline fuel injection apparatus F02M41/00 - F02M63/00 Electrically-operated F02M 51/00 High pressure gasoline common rail fuel injection systems F02M 63/0225
F02M 69/30	Limiting Reference	At acceleration F02M69/44	Delete the entire Limiting references section: heading, preamble, and table.

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<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>
F02M 69/30			<p>Insert the following <u>new</u> Informative references section.</p> <p><i>Informative references</i></p> <p><i>Attention is drawn to the following places, which may be of interest for search:</i></p> <p>At acceleration F02M 69/44</p>
F02M 71/00	Limiting Reference	Means for enriching charge on sudden air throttle opening of carburettors F02M7/06	<p>Delete the entire Limiting references section: heading, preamble, and table.</p>
F02M 71/00			<p>Insert the following <u>new</u> Informative references section.</p> <p><i>Informative references</i></p> <p><i>Attention is drawn to the following places, which may be of interest for search:</i></p> <p>Means for enriching charge on sudden air throttle opening of carburettors F02M 7/06</p>

NOTES:

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

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3. REVISION CONCORDANCE LIST (RCL)

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
C	F02M 7/06	F02M 7/06, F02M 71/00, F02M 71/02, F02M 71/04
C	F02M 7/08	F02M 7/08, F02M 71/00, F02M 71/02, F02M 71/04
C	F02M 7/083	F02M 7/083, F02M 71/00, F02M 71/02, F02M 71/04
C	F02M 7/087	F02M 7/087, F02M 71/00, F02M 71/02, F02M 71/04
C	F02M 7/093	F02M 7/093, F02M 71/00, F02M 71/02, F02M 71/04
C	F02M 7/10	F02M 7/10, F02M 7/23, F02M 7/24, F02M 7/245, F02M 7/26, F02M 7/28
C	F02M 7/103	F02M 7/103, F02M 7/23, F02M 7/24, F02M 7/245, F02M 7/26, F02M 7/28
C	F02M 7/106	F02M 7/106, F02M 7/23, F02M 7/24, F02M 7/245, F02M 7/26, F02M 7/28
C	F02M 7/11	F02M 7/11, F02M 7/23, F02M 7/24, F02M 7/245, F02M 7/26, F02M 7/28
C	F02M 9/06	F02M 9/06, F02M 7/17
C	F02M 9/065	F02M 9/065, F02M 7/17
C	F02M 29/02	F02M 29/02, F02M 29/04, F02M 29/06, F02M 29/08, F02M 29/10
C	F02M 31/02	F02M 31/02, F02M 37/30
C	F02M 31/04	F02M 31/04, F02M 37/30
C	F02M 31/042	F02M 31/042, F02M 37/30
C	F02M 31/045	F02M 31/045, F02M 37/30
C	F02M 31/047	F02M 31/047, F02M 37/30
C	F02M 31/06	F02M 31/06, F02M 37/30
C	F02M 31/062	F02M 31/062, F02M 37/30
C	F02M 31/064	F02M 31/064, F02M 37/30
C	F02M 31/066	F02M 31/066, F02M 37/30
C	F02M 31/068	F02M 31/068, F02M 37/30
C	F02M 31/07	F02M 31/07, F02M 37/30
C	F02M 31/08	F02M 31/08, F02M 37/30
C	F02M 31/0805	F02M 31/0805, F02M 37/30
C	F02M 31/081	F02M 31/081, F02M 37/30
C	F02M 31/0815	F02M 31/0815, F02M 37/30
C	F02M 31/082	F02M 31/082, F02M 37/30
C	F02M 31/0825	F02M 31/0825, F02M 37/30
C	F02M 31/083	F02M 31/083, F02M 37/30
C	F02M 31/087	F02M 31/087, F02M 37/30
C	F02M 31/093	F02M 31/093, F02M 37/30
C	F02M 31/10	F02M 31/10, F02M 37/30
C	F02M 31/102	F02M 31/102, F02M 37/30
C	F02M 31/105	F02M 31/105, F02M 37/30
C	F02M 31/107	F02M 31/107, F02M 37/30
C	F02M 31/12	F02M 31/12, F02M 37/30

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Type*	From CPC Symbol (existing)	To CPC Symbol(s)
C	F02M 31/125	F02M 31/125, F02M 37/30
C	F02M 31/13	F02M 31/13, F02M 37/30
C	F02M 31/135	F02M 31/135, F02M 37/30
C	F02M 31/14	F02M 31/14, F02M 37/30
C	F02M 31/145	F02M 31/145, F02M 37/30
C	F02M 31/16	F02M 31/16, F02M 37/30
C	F02M 31/163	F02M 31/163, F02M 37/30
C	F02M 31/166	F02M 31/166, F02M 37/30
C	F02M 31/18	F02M 31/18, F02M 37/30
C	F02M 31/183	F02M 31/183, F02M 37/30
C	F02M 31/186	F02M 31/186, F02M 37/30
C	F02M 35/108	F02M 35/108, F02M 35/112, F02M 35/116, F02M 35/1165
C	F02M 35/1085	F02M 35/1085, F02M 35/112, F02M 35/116, F02M 35/1165
C	F02M 39/00	F02M 39/00, F02M 49/00, F02M 49/02, F02M 49/04
C	F02M 39/005	F02M 39/005, F02M 49/00, F02M 49/02, F02M 49/04
C	F02M 51/06	F02M 51/06, F02M 51/08
D	F02M 2051/08	<administrative transfer to F02M 51/08 INV>

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

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F02M 7/23	F02M 7/23	NEW
F02M 2051/08		DELETE
F02M 51/08	F02M 51/08	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.