

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
<b>Symbols deleted:</b>	F02M	25/07
	F02M	25/0701
	F02M	25/0702
	F02M	25/0703
	F02M	25/0704
	F02M	25/0705
	F02M	25/0706
	F02M	25/0707
	F02M	25/0709
	F02M	25/071
	F02M	25/0711
	F02M	25/0712
	F02M	25/0713
	F02M	25/0714
	F02M	25/0715
	F02M	25/0717
	F02M	25/0718
	F02M	25/0719
	F02M	25/072
	F02M	25/0721
	F02M	25/0722
	F02M	25/0723
	F02M	25/0724
	F02M	25/0726
	F02M	25/0727
	F02M	25/0728
	F02M	25/0729
	F02M	25/073
	F02M	25/0731
	F02M	25/0732
	F02M	25/0734
	F02M	25/0735
	F02M	25/0736
	F02M	25/0737
	F02M	25/0738
	F02M	25/0739
	F02M	25/074
	F02M	25/0742
	F02M	25/0743
	F02M	25/0744
	F02M	25/0745
	F02M	25/0746

CPC NOTICE OF CHANGES 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
<b>Symbols deleted:</b>	F02M	25/0747
	F02M	25/0748
	F02M	25/0749
	F02M	25/0751
	F02M	25/0752
	F02M	25/0753
	F02M	25/0754
	F02M	25/0755
	F02M	25/0756
	F02M	2025/0757
	F02M	2025/0759
	F02M	2025/076
	F02M	2025/0761
	F02M	2025/0762
	F02M	2025/0763
	F02M	2025/0764
	F02M	2025/0765
	F02M	2025/0767
	F02M	2025/0768
	F02M	2025/0769
	F02M	25/077
	F02M	25/0771
	F02M	25/0772
	F02M	25/0773
	F02M	25/0774
	F02M	25/0776
	F02M	25/0777
	F02M	25/0778
	F02M	25/0779
	F02M	25/078
	F02M	25/0781
	F02M	25/0782
	F02M	25/0784
	F02M	25/0785
	F02M	25/0786
	F02M	25/0787
	F02M	25/0788
	F02M	25/0789
	F02M	25/079
	F02M	25/0792
	F02M	25/0793
	F02M	25/0794
	F02M	25/0795
	F02M	25/0796
	F02M	25/0797
	F02M	25/0798
<b>Symbols newly created:</b>	F02M	26/00
	F02M	26/01

CPC NOTICE OF CHANGES 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
<b>Symbols newly created:</b>	F02M	2026/001
	F02M	2026/002
	F02M	2026/0025
	F02M	2026/003
	F02M	2026/004
	F02M	2026/005
	F02M	2026/0055
	F02M	2026/006
	F02M	2026/007
	F02M	2026/008
	F02M	2026/009
	F02M	26/02
	F02M	26/03
	F02M	26/04
	F02M	26/05
	F02M	26/06
	F02M	26/07
	F02M	26/08
	F02M	26/09
	F02M	26/10
	F02M	26/11
	F02M	26/12
	F02M	26/13
	F02M	26/14
	F02M	26/15
	F02M	26/16
	F02M	26/17
	F02M	26/18
	F02M	26/19
	F02M	26/20
	F02M	26/21
	F02M	26/22
	F02M	26/23
	F02M	26/24
	F02M	26/25
	F02M	26/26
	F02M	26/27
	F02M	26/28
	F02M	26/29
	F02M	26/30
	F02M	26/31
	F02M	26/32
	F02M	26/33
	F02M	26/34
	F02M	26/35
	F02M	26/36
	F02M	26/37
	F02M	26/38
	F02M	26/39

CPC NOTICE OF CHANGES 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
<b>Symbols newly created:</b>	F02M	26/40
	F02M	26/41
	F02M	26/42
	F02M	26/43
	F02M	26/44
	F02M	26/45
	F02M	26/46
	F02M	26/47
	F02M	26/48
	F02M	26/49
	F02M	26/50
	F02M	26/51
	F02M	26/52
	F02M	26/53
	F02M	26/54
	F02M	26/55
	F02M	26/56
	F02M	26/57
	F02M	26/58
	F02M	26/59
	F02M	26/60
	F02M	26/61
	F02M	26/615
	F02M	26/62
	F02M	26/63
	F02M	26/64
	F02M	26/65
	F02M	26/66
	F02M	26/67
	F02M	26/68
	F02M	26/69
	F02M	26/70
	F02M	26/71
	F02M	26/72
	F02M	26/73
	F02M	26/74
<b>Title wording changes:</b>	F02M	25/00
	F02M	25/06
<b>New/modified Definitions:</b>	F02M	25/00
		26/00
<b>Scheme Warning Notices to be added:</b>	F02M	26/52
	F02M	26/53
	F02M	26/54
	F02M	26/55
	F02M	26/56
	F02M	26/57

CPC NOTICE OF CHANGES 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
<b>Scheme Warning Notices to be added:</b>	F02M	26/58
	F02M	26/59
	F02M	26/60
	F02M	26/61
	F02M	26/615
	F02M	26/62
	F02M	26/63
	F02M	26/64

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

F01L3/00, F01L13/00, F01N, F01N3/00, F01P3/00, F02B47/08, F02B47/10, F02D9/00, F02D41/0047, F02D41/006, F02D41/0065, F02D41/0072, F02D41/0077, F02D41/08, F02D41/22, F15B15/10, F28D.

**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. New, Modified or Deleted 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 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

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 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<sup>#</sup></u>
U	F02M23/14	1	characterised by adding hot {secondary} air	
M	F02M25/00	0	Engine-pertinent apparatus for adding non-fuel substances or small quantities of secondary fuel to combustion-air, main fuel, or fuel-air mixture (F02M43/00 takes precedence; adding secondary air to fuel-air mixture F02M23/00; adding exhaust gases F02M 26/00)	
M	F02M25/06	1	adding lubricant vapours	
D	F02M25/07	2	adding exhaust gases; {Exhaust gas recirculation [EGR]}	<administrative transfer to F02M26/00>
D	F02M25/0701	3	{Handling or preventing deposits, corrosion or wear caused by impurities, e.g. means or measures for preventing sticking of EGR valves (F02M25/0718 and F02M25/074 take precedence)}	<administrative transfer to F02M26/50>
D	F02M25/0702	3	{Detecting, diagnosing or alerting an abnormal function of the EGR system}	<administrative transfer to F02M26/49>
D	F02M25/0703	3	{having means for connecting parts of the EGR system to each other or to another engine part}	<administrative transfer to F02M26/12>
D	F02M25/0704	3		<administrative transfer to F02M26/02>
D	F02M25/0705	4		<administrative transfer to F02M26/03>
D	F02M25/0706	4		<administrative transfer to F02M26/04>
D	F02M25/0707	5		<administrative transfer to F02M26/05>
D	F02M25/0709	5		<administrative transfer to F02M26/06>
D	F02M25/071	5		<administrative transfer to F02M26/07>
D	F02M25/0711	4		<administrative transfer to F02M26/08>
D	F02M25/0712	4		<administrative transfer to F02M26/09>

CPC NOTICE OF CHANGES 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

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D	F02M25/0713	5		<administrative transfer to F02M26/10>
D	F02M25/0714	3		<administrative transfer to F02M26/11>
D	F02M25/0715	3		<administrative transfer to F02M26/13>
D	F02M25/0717	4		<administrative transfer to F02M26/14>
D	F02M25/0718	5		<administrative transfer to F02M26/15>
D	F02M25/0719	5		<administrative transfer to F02M26/16>
D	F02M25/072	4		<administrative transfer to F02M26/17>
D	F02M25/0721	5		<administrative transfer to F02M26/18>
D	F02M25/0722	5		<administrative transfer to F02M26/19>
D	F02M25/0723	5		<administrative transfer to F02M26/20>
D	F02M25/0724	5		<administrative transfer to F02M26/21>
D	F02M25/0726	4		<administrative transfer to F02M26/22>
D	F02M25/0727	5		<administrative transfer to F02M26/23>
D	F02M25/0728	6		<administrative transfer to F02M26/25>
D	F02M25/0729	7		<administrative transfer to F02M26/26>
D	F02M25/073	6		<administrative transfer to F02M26/27>
D	F02M25/0731	6		<administrative transfer to F02M26/28>
D	F02M25/0732	6		<administrative transfer to F02M26/24>
D	F02M25/0734	5		<administrative transfer to F02M26/29>
D	F02M25/0735	6		<administrative transfer to F02M26/30>
D	F02M25/0736	6		<administrative transfer to F02M26/31>
D	F02M25/0737	6		<administrative transfer to F02M26/32>

CPC NOTICE OF CHANGES 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

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D	F02M25/0738	5		<administrative transfer to F02M26/33>
D	F02M25/0739	4		<administrative transfer to F02M26/34>
D	F02M25/074	4		<administrative transfer to F02M26/35>
D	F02M25/0742	4		<administrative transfer to F02M26/36>
D	F02M25/0743	4		<administrative transfer to F02M26/37>
D	F02M25/0744	4		<administrative transfer to F02M26/38>
D	F02M25/0745	4		<administrative transfer to F02M26/39>
D	F02M25/0746	4		<administrative transfer to F02M26/40>
D	F02M25/0747	4		<administrative transfer to F02M26/41>
D	F02M25/0748	4		<administrative transfer to F02M26/42>
D	F02M25/0749	5		<administrative transfer to F02M26/43>
D	F02M25/0751	5		<administrative transfer to F02M26/44>
D	F02M25/0752	3		<administrative transfer to F02M26/01>
D	F02M25/0753	3		<administrative transfer to F02M26/45>
D	F02M25/0754	4		<administrative transfer to F02M26/47>
D	F02M25/0755	4		<administrative transfer to F02M26/46>
D	F02M25/0756	4		<administrative transfer to F02M26/48>
D	F02M2025/0757	3		<administrative transfer to F02M2026/001>
D	F02M2025/0759	4		<administrative transfer to F02M2026/002>
D	F02M2025/076	5		<administrative transfer to F02M2026/0025>
D	F02M2025/0761	4		<administrative transfer to F02M2026/003>
D	F02M2025/0762	4		<administrative transfer to F02M2026/004>



CPC NOTICE OF CHANGES 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

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D	F02M2025/0763	4		<administrative transfer to F02M2026/005>
D	F02M2025/0764	4		<administrative transfer to F02M2026/0055>
D	F02M2025/0765	4		<administrative transfer to F02M2026/006>
D	F02M2025/0767	4		<administrative transfer to F02M2026/007>
D	F02M2025/0768	4		<administrative transfer to F02M2026/008>
D	F02M2025/0769	4		<administrative transfer to F02M2026/009>
D	F02M25/077	3		<administrative transfer to F02M26/52>
D	F02M25/0771	4		<administrative transfer to F02M26/52>
D	F02M25/0772	5		<administrative transfer to F02M26/53>
D	F02M25/0773	6		<administrative transfer to F02M26/54>
D	F02M25/0774	5		<administrative transfer to F02M26/55>
D	F02M25/0776	6		<administrative transfer to F02M26/56>
D	F02M25/0777	7		<administrative transfer to F02M26/57>
D	F02M25/0778	6		<administrative transfer to F02M26/58>
D	F02M25/0779	5		<administrative transfer to F02M26/59>
D	F02M25/078	6		<administrative transfer to F02M26/60>
D	F02M25/0781	6		<administrative transfer to F02M26/61>
D	F02M25/0782	7		<administrative transfer to F02M26/615>
D	F02M25/0784	6		<administrative transfer to F02M26/62>
D	F02M25/0785	5		<administrative transfer to F02M26/63>
D	F02M25/0786	5		<administrative transfer to F02M26/64>
D	F02M25/0787	4		<administrative transfer to F02M26/65>

## CPC NOTICE OF CHANGES 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

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D	F02M25/0788	5		<administrative transfer to F02M26/66>
D	F02M25/0789	6		<administrative transfer to F02M26/67>
D	F02M25/079	6		<administrative transfer to F02M26/68>
D	F02M25/0792	7		<administrative transfer to F02M26/69>
D	F02M25/0793	5		<administrative transfer to F02M26/70>
D	F02M25/0794	5		<administrative transfer to F02M26/72>
D	F02M25/0795	6		<administrative transfer to F02M26/73>
D	F02M25/0796	5		<administrative transfer to F02M26/71>
D	F02M25/0797	5		<administrative transfer to F02M26/74>
D	F02M25/0798	5		<administrative transfer to F02M26/51>
U	F02M25/08	1	adding fuel vapours drawn from engine fuel reservoir {(electrical control of purge system F02D41/003)}	
U	F02M25/14	1	adding anti-knock agents, not provided for in subgroups F02M25/022 to F02M25/10	
N	F02M26/00	0	Engine-pertinent apparatus for adding exhaust gases to combustion-air, main fuel or fuel-air mixture, e.g. by exhaust gas recirculation [EGR] systems	
N	F02M2026/001	1	{Arrangements; Control features; Details}	
N	F02M2026/002	2	{EGR valve being controlled by vacuum or overpressure}	
N	F02M2026/0025	3	{Intake vacuum or overpressure modulating valve}	
N	F02M2026/003	2	{EGR valve controlled by air measuring device}	
N	F02M2026/004	2	{EGR valve controlled by a temperature signal or an air/fuel ratio (lambda) signal}	
N	F02M2026/005	2	{EGR valve controlled by an engine speed signal}	
N	F02M2026/0055	2	{EGR valve controlled by inertia, e.g. having a pendulum controlling the EGR valve}	
N	F02M2026/006	2	{EGR specially adapted for intake systems having two or more fuel injectors per cylinder}	
N	F02M2026/007	2	{EGR specially adapted for engines having two or more spark plugs per cylinder}	

CPC NOTICE OF CHANGES 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

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N	F02M2026/008	2	{EGR specially adapted for engines having a combustion chamber divided by the piston at TDC into two or more sub-chambers}	
N	F02M2026/009	2	{EGR combined with means to change air/fuel ratio, ignition timing, charge swirl in the cylinder}	
N	F02M26/01	1	Internal exhaust gas recirculation, i.e. wherein the residual exhaust gases are trapped in the cylinder or pushed back from the intake or the exhaust manifold into the combustion chamber without the use of additional passages	
N	F02M26/02	1	EGR systems specially adapted for supercharged engines	
N	F02M26/03	2	with a single mechanically or electrically driven intake charge compressor	
N	F02M26/04	2	with a single turbocharger	
N	F02M26/05	3	High pressure loops, i.e. wherein recirculated exhaust gas is taken out from the exhaust system upstream of the turbine and reintroduced into the intake system downstream of the compressor	
N	F02M26/06	3	Low pressure loops, i.e. wherein recirculated exhaust gas is taken out from the exhaust downstream of the turbocharger turbine and reintroduced into the intake system upstream of the compressor	
N	F02M26/07	3	Mixed pressure loops, i.e. wherein recirculated exhaust gas is either taken out upstream of the turbine and reintroduced upstream of the compressor, or is taken out downstream of the turbine and reintroduced downstream of the compressor	
N	F02M26/08	2	for engines having two or more intake charge compressors or exhaust gas turbines, e.g. a turbocharger combined with an additional compressor	
N	F02M26/09	2	Constructional details, e.g. structural combinations of EGR systems and supercharger systems; Arrangement of the EGR and supercharger systems with respect to the engine	
N	F02M26/10	3	having means to increase the pressure difference between the exhaust and intake system, e.g. venturis, variable geometry turbines, check valves using pressure pulsations or throttles in the air intake or exhaust system	

## CPC NOTICE OF CHANGES 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

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N	F02M26/11	1	Manufacture or assembly of EGR systems; Materials or coatings specially adapted for EGR systems	
N	F02M26/12	1	characterised by means for attaching parts of an EGR system to each other or to engine parts	
N	F02M26/13	1	Arrangement or layout of EGR passages, e.g. in relation to specific engine parts or for incorporation of accessories	
N	F02M26/14	2	in relation to the exhaust system	
N	F02M26/15	3	in relation to engine exhaust purifying apparatus	
N	F02M26/16	3	with EGR valves located at or near the connection to the exhaust system	
N	F02M26/17	2	in relation to the intake system	
N	F02M26/18	3	Thermal insulation or heat protection	
N	F02M26/19	3	Means for improving the mixing of air and recirculated exhaust gases, e.g. venturis or multiple openings to the intake system	
N	F02M26/20	3	Feeding recirculated exhaust gases directly into the combustion chambers or into the intake runners	
N	F02M26/21	3	with EGR valves located at or near the connection to the intake system	
N	F02M26/22	2	with coolers in the recirculation passage	
N	F02M26/23	3	Layout, e.g. schematics	
N	F02M26/24	4	with two or more coolers	
N	F02M26/25	4	with coolers having bypasses	
N	F02M26/26	5	characterised by details of the bypass valve	
N	F02M26/27	4	with air-cooled heat exchangers	
N	F02M26/28	4	with liquid-cooled heat exchangers	
N	F02M26/29	3	Constructional details of the coolers, e.g. pipes, plates, ribs, insulation or materials	
N	F02M26/30	4	Connections of coolers to other devices, e. g. to valves, heaters, compressors or filters; Coolers characterised by their location on the engine	
N	F02M26/31	4	Air-cooled heat exchangers	
N	F02M26/32	4	Liquid-cooled heat exchangers	
N	F02M26/33	3	controlling the temperature of the recirculated gases	
N	F02M26/34	2	with compressors, turbines or the like in the recirculation passage	
N	F02M26/35	2	with means for cleaning or treating the recirculated gases, e.g. catalysts, condensate traps, particle filters or heaters	
N	F02M26/36	2	with means for adding fluids other than exhaust gas to the recirculation passage; with reformers	

CPC NOTICE OF CHANGES 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

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N	F02M26/37	2	with temporary storage of recirculated exhaust gas (internal exhaust gas recirculation F02M26/01 )	
N	F02M26/38	2	with two or more EGR valves disposed in parallel	
N	F02M26/39	2	with two or more EGR valves disposed in series	
N	F02M26/40	2	with timing means in the recirculation passage, e.g. cyclically operating valves or regenerators; with arrangements involving pressure pulsations	
N	F02M26/41	2	characterised by the arrangement of the recirculation passage in relation to the engine, e.g. to cylinder heads, liners, spark plugs or manifolds; characterised by the arrangement of the recirculation passage in relation to specially adapted combustion chambers	
N	F02M26/42	2	having two or more EGR passages; EGR systems specially adapted for engines having two or more cylinders	
N	F02M26/43	3	in which exhaust from only one cylinder or only a group of cylinders is directed to the intake of the engine	
N	F02M26/44	3	in which a main EGR passage is branched into multiple passages	
N	F02M26/45	1	Sensors specially adapted for EGR systems	
N	F02M26/46	2	for determining the characteristics of gases, e.g. composition	
N	F02M26/47	3	the characteristics being temperatures, pressures or flow rates	
N	F02M26/48	2	EGR valve position sensors (details of the sensor installation in the valve housing F02M26/72)	
N	F02M26/49	1	Detecting, diagnosing or indicating an abnormal function of the EGR system	
N	F02M26/50	1	Arrangements or methods for preventing or reducing deposits, corrosion or wear caused by impurities (F02M26/35, F02M26/74 take precedence)	
N	F02M26/51	1	EGR valves combined with other devices, e.g. with intake valves or compressors (combined with intake air throttles F02M26/64)	
Q	F02M26/52	1	Systems for actuating EGR valves	F02M26/52, F02M26/53, F02M26/54, F02M26/55, F02M26/56, F02M26/57, F02M26/58, F02M26/59, F02M26/60, F02M26/61, F02M26/615, F02M26/62, F02M26/63, F02M26/64

## CPC NOTICE OF CHANGES 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

<b>Type*</b>	<b>Symbol</b>	<b>Indent Level Number of dots (e.g. 0, 1, 2)</b>	<b>Title (new or modified) "CPC only" text should normally be enclosed in {curly brackets}**</b>	<b>Transferred to<sup>#</sup></b>
N	F02M26/53	2	using electric actuators, e.g. solenoids	
N	F02M26/54	3	Rotary actuators, e.g. step motors	
N	F02M26/55	2	using vacuum actuators	
N	F02M26/56	3	having pressure modulation valves	
N	F02M26/57	4	using electronic means, e.g. electromagnetic valves	
N	F02M26/58	3	Constructional details of the actuator; Mounting thereof	
N	F02M26/59	2	using positive pressure actuators; Check valves therefor	
N	F02M26/60	3	in response to air intake pressure	
N	F02M26/61	3	in response to exhaust pressure	
N	F02M26/615	4	{the exhaust back pressure}	
N	F02M26/62	3	in response to fuel pressure	
N	F02M26/63	2	the EGR valve being directly controlled by an operator (F02M26/64 takes precedence )	
N	F02M26/64	2	the EGR valve being operated together with an intake air throttle	
N	F02M26/65	1	Constructional details of EGR valves	
N	F02M26/66	2	Lift valves, e.g. poppet valves	
N	F02M26/67	3	Pintles; Spindles; Springs; Bearings; Sealings; Connections to actuators	
N	F02M26/68	3	Closing members; Valve seats; Flow passages	
N	F02M26/69	3	having two or more valve-closing members	
N	F02M26/70	2	Flap valves; Rotary valves; Sliding valves; Resilient valves	
N	F02M26/71	2	Multi-way valves	
N	F02M26/72	2	Housings	
N	F02M26/73	3	with means for heating or cooling the EGR valve	
N	F02M26/74	2	Protection from damage, e.g. shielding means	

\*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.

## 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.

CPC NOTICE OF CHANGES 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

- 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 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

B. New, Modified or Deleted Warning notice(s)**SUBCLASS F02M - SUPPLYING COMBUSTION ENGINES IN GENERAL, WITH COMBUSTIBLE MIXTURES OR CONSTITUENTS THEREOF**

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	F02M26/52		Group F02M26/52 is impacted by reclassification into groups F02M26/53- F02M26/64. Groups F02M26/52 and F02M26/53- F02M26/64 should be considered in order to perform a complete search.
N	F02M26/53		Group F02M26/53 is incomplete pending reclassification of documents from group F02M26/52. Groups F02M26/53 and F02M26/52 should be considered in order to perform a complete search
N	F02M26/54		Group F02M26/54 is incomplete pending reclassification of documents from group F02M26/52. Groups F02M26/54 and F02M26/52 should be considered in order to perform a complete search
N	F02M26/55		Group F02M26/55 is incomplete pending reclassification of documents from group F02M26/52. Groups F02M26/55 and F02M26/52 should be considered in order to perform a complete search
N	F02M26/56		Group F02M26/56 is incomplete pending reclassification of documents from group F02M26/52. Groups F02M26/56 and F02M26/52 should be considered in order to perform a complete search
N	F02M26/57		Group F02M26/57 is incomplete pending reclassification of documents from group F02M26/52. Groups F02M26/57 and F02M26/52 should be considered in order to perform a complete search
N	F02M26/58		Group F02M26/58 is incomplete pending reclassification of documents from group F02M26/52. Groups F02M26/58 and F02M26/52 should be considered in order to perform a complete search



CPC NOTICE OF CHANGES 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	F02M26/59		Group F02M26/59 is incomplete pending reclassification of documents from group F02M26/52. Groups F02M26/59 and F02M26/52 should be considered in order to perform a complete search
N	F02M26/60		Group F02M26/60 is incomplete pending reclassification of documents from group F02M26/52. Groups F02M26/60 and F02M26/52 should be considered in order to perform a complete search
N	F02M26/61		Group F02M26/61 is incomplete pending reclassification of documents from group F02M26/52. Groups F02M26/61 and F02M26/52 should be considered in order to perform a complete search
N	F02M26/615		Group F02M26/615 is incomplete pending reclassification of documents from group F02M26/52. Groups F02M26/615 and F02M26/52 should be considered in order to perform a complete search
N	F02M26/62		Group F02M26/62 is incomplete pending reclassification of documents from group F02M26/52. Groups F02M26/62 and F02M26/52 should be considered in order to perform a complete search
N	F02M26/63		Group F02M26/63 is incomplete pending reclassification of documents from group F02M26/52. Groups F02M26/63 and F02M26/52 should be considered in order to perform a complete search
N	F02M26/64		Group F02M26/64 is incomplete pending reclassification of documents from group F02M26/52. Groups F02M26/64 and F02M26/52 should be considered in order to perform a complete search

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

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

DATE: FEBRUARY 1, 2016

PROJECT RP0301

## 2. A. DEFINITIONS (new or modified)

Replace the current F02M25/00 definition with the following:

### F02M 25/00

**Engine-pertinent apparatus for adding non-fuel substances or small quantities of secondary fuel to combustion-air, main fuel, or fuel-air mixture (F02M43/00 takes precedence; adding secondary air to fuel-air mixture F02M23/00)**

#### Definition statement

*This group covers:*

Apparatus for adding water, lubricant vapours or fuel vapours to the combustion mixture. These substances are added to improve the combustion properties of the fuel/air mixture and/or make the exhaust gases cleaner or prevent harmful gases from escaping to atmosphere.

#### Relationship between large subject matter areas

Controlling engines characterised by their being supplied with non-airborne oxygen or other non-fuel gas, [F02D21/00](#)

#### References relevant to classification in this group

*This group does not cover:*

Adding secondary air to fuel-air mixture	<a href="#">F02M23/00</a>
Adding exhaust gases	<a href="#">F02M26/00</a>
Fuel injection apparatus working simultaneously on two or more fuels	<a href="#">F02M43/00</a>

DATE: FEBRUARY 1, 2016

PROJECT RP0301

## Informative references

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

Crankcase ventilating or breathing	<a href="#">F01M13/00</a>
Exhaust or silencing apparatus having means for purifying, rendering innocuous, or otherwise treating exhaust	<a href="#">F01N3/00</a>
Methods of operating engines involving adding non-fuel substances or anti-knock agents to combustion air, fuel or fuel-air mixtures of engines	<a href="#">F02B47/00</a>

## Synonyms and Keywords

In patent documents the following abbreviations are often used:

PCV	Positive Crankcase Ventilation
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Insert new definition:

## F02M 26/00

**Engine-pertinent apparatus for adding exhaust gases to combustion-air, main fuel or fuel-air mixture, e.g. by exhaust gas recirculation [EGR] systems**

## Definition statement

*This group covers:*

Apparatus for adding exhaust gases to the combustion mixture. The exhaust gas is added to improve the combustion properties of the fuel/air mixture and/or make the exhaust gases cleaner or prevent harmful gases from escaping to atmosphere.

## Informative references

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

Methods of operating engines involving adding exhaust gas to combustion air, fuel, or fuel air-mixtures of engines	<a href="#">F02B47/08</a>
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CPC NOTICE OF CHANGES 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

Actuation of an additional valve for a special application, e.g. for decompression, exhaust gas recirculation or cylinder scavenging	F02D13/0276
Controlling engines characterised by their being supplied with exhaust gas of engine to combustion air	F02D21/08
Controlling exhaust gas recirculation [EGR]	F02D41/0047

## Synonyms and Keywords

*In patent documents the following abbreviations are often used:*

EGR	Exhaust Gas Recirculation
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CPC NOTICE OF CHANGES 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

3. REVISION CONCORDANCE LIST (RCL)

<b>Type*</b>	<b>From CPC Symbol (existing)</b>	<b>To CPC Symbol(s)</b>
D	F02M25/07	<Administrative transfer to F02M26/00>
D	F02M25/0701	<Administrative transfer to F02M26/50>
D	F02M25/0702	<Administrative transfer to F02M26/49>
D	F02M25/0703	<Administrative transfer to F02M26/12>
D	F02M25/0704	<Administrative transfer to F02M26/02>
D	F02M25/0705	<Administrative transfer to F02M26/03>
D	F02M25/0706	<Administrative transfer to F02M26/04>
D	F02M25/0707	<Administrative transfer to F02M26/05>
D	F02M25/0709	<Administrative transfer to F02M26/06>
D	F02M25/071	<Administrative transfer to F02M26/07>
D	F02M25/0711	<Administrative transfer to F02M26/08>
D	F02M25/0712	<Administrative transfer to F02M26/09>
D	F02M25/0713	<Administrative transfer to F02M26/10>
D	F02M25/0714	<Administrative transfer to F02M26/11>
D	F02M25/0715	<Administrative transfer to F02M26/13>
D	F02M25/0717	<Administrative transfer to F02M26/14>
D	F02M25/0718	<Administrative transfer to F02M26/15>
D	F02M25/0719	<Administrative transfer to F02M26/16>
D	F02M25/072	<Administrative transfer to F02M26/17>
D	F02M25/0721	<Administrative transfer to F02M26/18>
D	F02M25/0722	<Administrative transfer to F02M26/19>
D	F02M25/0723	<Administrative transfer to F02M26/20>
D	F02M25/0724	<Administrative transfer to F02M26/21>
D	F02M25/0726	<Administrative transfer to F02M26/22>
D	F02M25/0727	<Administrative transfer to F02M26/23>
D	F02M25/0728	<Administrative transfer to F02M26/25>
D	F02M25/0729	<Administrative transfer to F02M26/26>
D	F02M25/073	<Administrative transfer to F02M26/27>
D	F02M25/0731	<Administrative transfer to F02M26/28>
D	F02M25/0732	<Administrative transfer to F02M26/24>
D	F02M25/0734	<Administrative transfer to F02M26/29>
D	F02M25/0735	<Administrative transfer to F02M26/30>
D	F02M25/0736	<Administrative transfer to F02M26/31>
D	F02M25/0737	<Administrative transfer to F02M26/32>
D	F02M25/0738	<Administrative transfer to F02M26/33>
D	F02M25/0739	<Administrative transfer to F02M26/34>
D	F02M25/074	<Administrative transfer to F02M26/35>
D	F02M25/0742	<Administrative transfer to F02M26/36>
D	F02M25/0743	<Administrative transfer to F02M26/37>
D	F02M25/0744	<Administrative transfer to F02M26/38>
D	F02M25/0745	<Administrative transfer to F02M26/39>
D	F02M25/0746	<Administrative transfer to F02M26/40>
D	F02M25/0747	<Administrative transfer to F02M26/41>
D	F02M25/0748	<Administrative transfer to F02M26/42>
D	F02M25/0749	<Administrative transfer to F02M26/43>
D	F02M25/0751	<Administrative transfer to F02M26/44>

CPC NOTICE OF CHANGES 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

<b>Type*</b>	<b>From CPC Symbol (existing)</b>	<b>To CPC Symbol(s)</b>
D	F02M25/0752	<Administrative transfer to F02M26/01>
D	F02M25/0753	<Administrative transfer to F02M26/45>
D	F02M25/0754	<Administrative transfer to F02M26/47>
D	F02M25/0755	<Administrative transfer to F02M26/46>
D	F02M25/0756	<Administrative transfer to F02M26/48>
D	F02M2025/0757	<Administrative transfer to F02M2026/001>
D	F02M2025/0759	<Administrative transfer to F02M2026/002>
D	F02M2025/076	<Administrative transfer to F02M2026/0025>
D	F02M2025/0761	<Administrative transfer to F02M2026/003>
D	F02M2025/0762	<Administrative transfer to F02M2026/004>
D	F02M2025/0763	<Administrative transfer to F02M2026/005>
D	F02M2025/0764	<Administrative transfer to F02M2026/0055>
D	F02M2025/0765	<Administrative transfer to F02M2026/006>
D	F02M2025/0767	<Administrative transfer to F02M2026/007>
D	F02M2025/0768	<Administrative transfer to F02M2026/008>
D	F02M2025/0769	<Administrative transfer to F02M2026/009>
D	F02M25/077	<Administrative transfer to F02M26/52>
D	F02M25/0771	<Administrative transfer to F02M26/52>
D	F02M25/0772	<Administrative transfer to F02M26/53>
D	F02M25/0773	<Administrative transfer to F02M26/54>
D	F02M25/0774	<Administrative transfer to F02M26/55>
D	F02M25/0776	<Administrative transfer to F02M26/56>
D	F02M25/0777	<Administrative transfer to F02M26/57>
D	F02M25/0778	<Administrative transfer to F02M26/58>
D	F02M25/0779	<Administrative transfer to F02M26/59>
D	F02M25/078	<Administrative transfer to F02M26/60>
D	F02M25/0781	<Administrative transfer to F02M26/61>
D	F02M25/0782	<Administrative transfer to F02M26/615>
D	F02M25/0784	<Administrative transfer to F02M26/62>
D	F02M25/0785	<Administrative transfer to F02M26/63>
D	F02M25/0786	<Administrative transfer to F02M26/64>
D	F02M25/0787	<Administrative transfer to F02M26/65>
D	F02M25/0788	<Administrative transfer to F02M26/66>
D	F02M25/0789	<Administrative transfer to F02M26/67>
D	F02M25/079	<Administrative transfer to F02M26/68>
D	F02M25/0792	<Administrative transfer to F02M26/69>
D	F02M25/0793	<Administrative transfer to F02M26/70>
D	F02M25/0794	<Administrative transfer to F02M26/72>
D	F02M25/0795	<Administrative transfer to F02M26/73>
D	F02M25/0796	<Administrative transfer to F02M26/71>
D	F02M25/0797	<Administrative transfer to F02M26/74>
D	F02M25/0798	<Administrative transfer to F02M26/51>
Q	F02M26/52	F02M26/52, F02M26/53, F02M26/54, F02M26/55, F02M26/56, F02M26/57, F02M26/58, F02M26/59, F02M26/60, F02M26/61, F02M26/615, F02M26/62, F02M26/63, F02M26/64

\* 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

CPC NOTICE OF CHANGES 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

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”.

CPC NOTICE OF CHANGES 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F02M25/07		DELETE
F02M25/0701		DELETE
F02M25/0702		DELETE
F02M25/0703		DELETE
F02M25/0704		DELETE
F02M25/0705		DELETE
F02M25/0706		DELETE
F02M25/0707		DELETE
F02M25/0709		DELETE
F02M25/071		DELETE
F02M25/0711		DELETE
F02M25/0712		DELETE
F02M25/0713		DELETE
F02M25/0714		DELETE
F02M25/0715		DELETE
F02M25/0717		DELETE
F02M25/0718		DELETE
F02M25/0719		DELETE
F02M25/072		DELETE
F02M25/0721		DELETE
F02M25/0722		DELETE
F02M25/0723		DELETE
F02M25/0724		DELETE
F02M25/0726		DELETE
F02M25/0727		DELETE
F02M25/0728		DELETE
F02M25/0729		DELETE
F02M25/073		DELETE
F02M25/0731		DELETE
F02M25/0732		DELETE
F02M25/0734		DELETE
F02M25/0735		DELETE
F02M25/0736		DELETE
F02M25/0737		DELETE
F02M25/0738		DELETE
F02M25/0739		DELETE
F02M25/074		DELETE
F02M25/0742		DELETE
F02M25/0743		DELETE
F02M25/0744		DELETE
F02M25/0745		DELETE



CPC NOTICE OF CHANGES 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F02M25/0746		DELETE
F02M25/0747		DELETE
F02M25/0748		DELETE
F02M25/0749		DELETE
F02M25/0751		DELETE
F02M25/0752		DELETE
F02M25/0753		DELETE
F02M25/0754		DELETE
F02M25/0755		DELETE
F02M25/0756		DELETE
F02M2025/0757		DELETE
F02M2025/0759		DELETE
F02M2025/076		DELETE
F02M2025/0761		DELETE
F02M2025/0762		DELETE
F02M2025/0763		DELETE
F02M2025/0764		DELETE
F02M2025/0765		DELETE
F02M2025/0767		DELETE
F02M2025/0768		DELETE
F02M2025/0769		DELETE
F02M25/077		DELETE
F02M25/0771		DELETE
F02M25/0772		DELETE
F02M25/0773		DELETE
F02M25/0774		DELETE
F02M25/0776		DELETE
F02M25/0777		DELETE
F02M25/0778		DELETE
F02M25/0779		DELETE
F02M25/078		DELETE
F02M25/0781		DELETE
F02M25/0782		DELETE
F02M25/0784		DELETE
F02M25/0785		DELETE
F02M25/0786		DELETE
F02M25/0787		DELETE
F02M25/0788		DELETE
F02M25/0789		DELETE
F02M25/079		DELETE
F02M25/0792		DELETE
F02M25/0793		DELETE
F02M25/0794		DELETE
F02M25/0795		DELETE

CPC NOTICE OF CHANGES 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F02M25/0796		DELETE
F02M25/0797		DELETE
F02M25/0798		DELETE
F02M26/00	F02M26/00	NEW
F02M2026/001	F02M26/00	NEW
F02M2026/002	F02M26/00	NEW
F02M2026/0025	F02M26/00	NEW
F02M2026/003	F02M26/00	NEW
F02M2026/004	F02M26/00	NEW
F02M2026/005	F02M26/00	NEW
F02M2026/0055	F02M26/00	NEW
F02M2026/006	F02M26/00	NEW
F02M2026/007	F02M26/00	NEW
F02M2026/008	F02M26/00	NEW
F02M2026/009	F02M26/00	NEW
F02M26/01	F02M26/01	NEW
F02M26/02	F02M26/02	NEW
F02M26/03	F02M26/03	NEW
F02M26/04	F02M26/04	NEW
F02M26/05	F02M26/05	NEW
F02M26/06	F02M26/06	NEW
F02M26/07	F02M26/07	NEW
F02M26/08	F02M26/08	NEW
F02M26/09	F02M26/09	NEW
F02M26/10	F02M26/10	NEW
F02M26/11	F02M26/11	NEW
F02M26/12	F02M26/12	NEW
F02M26/13	F02M26/13	NEW
F02M26/14	F02M26/14	NEW
F02M26/15	F02M26/15	NEW
F02M26/16	F02M26/16	NEW
F02M26/17	F02M26/17	NEW
F02M26/18	F02M26/18	NEW
F02M26/19	F02M26/19	NEW
F02M26/20	F02M26/20	NEW
F02M26/21	F02M26/21	NEW
F02M26/22	F02M26/22	NEW
F02M26/23	F02M26/23	NEW
F02M26/24	F02M26/24	NEW
F02M26/25	F02M26/25	NEW
F02M26/26	F02M26/26	NEW
F02M26/27	F02M26/27	NEW
F02M26/28	F02M26/28	NEW

CPC NOTICE OF CHANGES 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

<b><u>CPC</u></b>	<b><u>IPC</u></b>	<b><u>Action*</u></b>
F02M26/29	F02M26/29	NEW
F02M26/30	F02M26/30	NEW
F02M26/31	F02M26/31	NEW
F02M26/32	F02M26/32	NEW
F02M26/33	F02M26/33	NEW
F02M26/34	F02M26/34	NEW
F02M26/35	F02M26/35	NEW
F02M26/36	F02M26/36	NEW
F02M26/37	F02M26/37	NEW
F02M26/38	F02M26/38	NEW
F02M26/39	F02M26/39	NEW
F02M26/40	F02M26/40	NEW
F02M26/41	F02M26/41	NEW
F02M26/42	F02M26/42	NEW
F02M26/43	F02M26/43	NEW
F02M26/44	F02M26/44	NEW
F02M26/45	F02M26/45	NEW
F02M26/46	F02M26/46	NEW
F02M26/47	F02M26/47	NEW
F02M26/48	F02M26/48	NEW
F02M26/49	F02M26/49	NEW
F02M26/50	F02M26/50	NEW
F02M26/51	F02M26/51	NEW
F02M26/52	F02M26/52	NEW
F02M26/53	F02M26/53	NEW
F02M26/54	F02M26/54	NEW
F02M26/55	F02M26/55	NEW
F02M26/56	F02M26/56	NEW
F02M26/57	F02M26/57	NEW
F02M26/58	F02M26/58	NEW
F02M26/59	F02M26/59	NEW
F02M26/60	F02M26/60	NEW
F02M26/61	F02M26/61	NEW
F02M26/615	F02M26/61	NEW
F02M26/62	F02M26/62	NEW
F02M26/63	F02M26/63	NEW
F02M26/64	F02M26/64	NEW
F02M26/65	F02M26/65	NEW
F02M26/66	F02M26/66	NEW
F02M26/67	F02M26/67	NEW
F02M26/68	F02M26/68	NEW
F02M26/69	F02M26/69	NEW
F02M26/70	F02M26/70	NEW
F02M26/71	F02M26/71	NEW

CPC NOTICE OF CHANGES 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

<b><u>CPC</u></b>	<b><u>IPC</u></b>	<b><u>Action*</u></b>
F02M26/72	F02M26/72	NEW
F02M26/73	F02M26/73	NEW
F02M26/74	F02M26/74	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 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

## 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>
F02D41/0047	F02M25/0738	F02M26/33
F02D41/006	F02M25/0752	F02M26/01
F02D41/0065	F02M25/07	F02M26/00
F02D41/0072	F02M25/0753	F02M26/45
F02D41/0077	F02M25/0756	F02M26/48
F02M31/08	F02M25/07	F02M26/00

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>
F01L3/00	F02M25/077	References relevant to classification in this group	F02M26/52
F01L13/00	F02M25/0752	Informative references	F02M26/01
F01N	F02M25/07	Relationship between large subject matter areas	F02M26/00
F01N	F02M25/07	References relevant to classification in this subclass	F02M26/00
F01N3/00	F02M25/07	References relevant to classification in this group	F02M26/00
F01N3/00	F02M25/07	Informative references	F02M26/00
F01P3/00	F02M25/0715	Informative references	F02M26/13
F02B47/08	F02M25/07	References relevant to classification in this group	F02M26/00
F02B47/10	F02M25/07	References relevant to classification in this group	F02M26/00

CPC NOTICE OF CHANGES 167

DATE: FEBRUARY 1, 2016

PROJECT RP0301

<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>
F02D9/00	F02M25/077	References relevant to classification in this group	F02M26/52
F02D41/0047	F02M25/0738	Informative references	F02M26/33
F02D41/0047	F02M25/07	Informative references	F02M26/00
F02D41/0047	F02M25/0702	Informative references	F02M26/49
F02D41/006	F02M25/0752	Informative references	F02M26/01
F02D41/0077	F02M25/0756	Informative references	F02M26/48
F02D41/22	F02M25/0702	References relevant to classification in this group	F02M26/49
F15B15/10	F02M25/0778	Informative references	F02M26/58
F28D	F02M25/07	References relevant to classification in this subclass	F02M26/00

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.