

Symbol	Typ	Titel
<b>F</b>	<b>Sektion</b>	<b>MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING</b>
<b>F02</b>	<b>Klasse</b>	<b>COMBUSTION ENGINES; HOT-GAS OR COMBUSTION-PRODUCT ENGINE PLANTS</b>
<b>F02P</b>	<b>Unterkategorie</b>	<b>IGNITION, OTHER THAN COMPRESSION IGNITION, FOR INTERNAL-COMBUSTION ENGINES ; TESTING OF IGNITION TIMING IN COMPRESSION-IGNITION ENGINES (specially adapted for rotary-piston or oscillating-piston engines F02B 53/12; ignition of combustion apparatus in general, glowing plugs F23Q; measuring of physical variables in general G01; controlling in general G05; data processing in general G06; electrical components in general, <u>see section H</u>; sparking plugs H01T)</b>
		<b><u>Electric spark ignition installations characterised by the type of ignition power generation or storage</u></b>
<b>F02P 1/00</b>	<b>Hauptgruppe</b>	<b>Installations having electric ignition energy generated by magneto- or dynamo-electric generators without subsequent storage [1, 2006.01]</b>
F02P 1/02	1-Punkt Untergruppe	. the generator rotor being characterised by forming part of the engine flywheel [1, 2006.01]
F02P 1/04	1-Punkt Untergruppe	. the generator being specially adapted for use with specific engine types, e.g. engines with V-arrangement of cylinders [1, 2006.01]
F02P 1/06	1-Punkt Untergruppe	. Generator drives, e.g. having snap couplings [1, 2006.01]
F02P 1/08	1-Punkt Untergruppe	. Layout of circuits [1, 2006.01]
<b>F02P 3/00</b>	<b>Hauptgruppe</b>	<b>Other electric spark ignition installations characterised by the type of ignition power generation storage [1, 2006.01]</b>
F02P 3/01	1-Punkt Untergruppe	. Electric spark ignition installations without subsequent energy storage, i.e. energy supplied by an electrical oscillator (with magneto- or dynamo-electric generators F02P 1/00; piezo-electric ignition F02P 3/12; with continuous electric spark F02P 15/10) [4, 2006.01]
F02P 3/02	1-Punkt Untergruppe	. having inductive energy storage, e.g. arrangements of induction coils [1, 2006.01]
F02P 3/04	2-Punkt Untergruppe	... Layout of circuits [1, 2006.01]
F02P 3/045	3-Punkt Untergruppe	... for control of the dwell or anti-dwell time [4, 2006.01]
F02P 3/05	3-Punkt Untergruppe	... for control of the magnitude of the current in the ignition coil (during starting F02P 15/12) [4, 2006.01]
F02P 3/055	3-Punkt Untergruppe	... with protective means to prevent damage to the circuit or the ignition coil [4, 2006.01]
F02P 3/06	1-Punkt Untergruppe	. having capacitive energy storage (piezo-electric or electrostatic ignition F02P 3/12) [1, 2006.01]
F02P 3/08	2-Punkt Untergruppe	... Layout of circuits (for low tension F02P 3/10) [1, 2006.01]
F02P 3/09	3-Punkt Untergruppe	... for control of the charging current in the capacitor (F02P 15/12 takes precedence) [4, 2006.01]
F02P 3/10	2-Punkt Untergruppe	... Low-tension installation, e.g. using surface-discharge sparking plugs [1, 2006.01]
F02P 3/12	1-Punkt Untergruppe	. Piezo-electric ignition; Electrostatic ignition [1, 2006.01]
		<b><u>Advancing or retarding electric ignition spark; Arrangements of distributors or of circuit-makers or-breakers for electric spark ignition; Electric spark ignition control or safety means, not otherwise provided for</u></b>
<b>F02P 5/00</b>	<b>Hauptgruppe</b>	<b>Advancing or retarding electric ignition spark; Control therefor [1, 6, 2006.01]</b>
F02P 5/02	1-Punkt Untergruppe	. non-automatically; dependent on position of personal controls of engine, e.g. throttle position [1, 2006.01]
F02P 5/04	1-Punkt Untergruppe	. automatically, as a function of the working conditions of the engine or vehicle or of the atmospheric conditions (dependent on position of personal controls of engine F02P 5/02) [1, 2006.01]
F02P 5/05	2-Punkt Untergruppe	... using mechanical means [4, 2006.01]

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F02P 5/06	3-Punkt Untergruppe	... dependent on engine speed [1, 4, 2006.01]
F02P 5/07	4-Punkt Untergruppe	.... Centrifugal timing mechanisms [6, 2006.01]
F02P 5/10	3-Punkt Untergruppe	... dependent on fluid pressure in engine, e.g. combustion-air pressure [1, 4, 2006.01]
F02P 5/12	4-Punkt Untergruppe	.... dependent on a specific pressure other than that of combustion-air, e.g. of exhaust, cooling fluid, lubricant [1, 4, 2006.01]
F02P 5/14	3-Punkt Untergruppe	... dependent on specific conditions other than engine speed or engine fluid pressure, e.g. temperature [1, 4, 2006.01]
F02P 5/145	2-Punkt Untergruppe	... using electrical means [4, 2006.01]
F02P 5/15	3-Punkt Untergruppe	... Digital data processing [4, 2006.01]
F02P 5/152	4-Punkt Untergruppe	.... dependent on pinking (detecting or indicating knocks in internal-combustion engines G01L 23/22) [6, 2006.01]
F02P 5/153	4-Punkt Untergruppe	.... dependent on combustion pressure [6, 2006.01]
F02P 5/155	3-Punkt Untergruppe	... Analogue data processing [4, 2006.01]
F02P 5/16	1-Punkt Untergruppe	. characterised by the mechanical transmission between sensing elements or personal controls and final actuating elements [1, 2006.01]
<b>F02P 7/00</b>	<b>Hauptgruppe</b>	<b>Arrangement of distributors, circuit-makers, circuit-breakers or pick-up devices for electric spark ignition (advancing or retarding ignition or control therefor F02P 5/00; such devices <u>per se</u>, see the relevant classes of section H, e.g. rotary switches H01H 19/00, contact-breakers, distributors H01R 39/00, generators H02K) [1, 2006.01]</b>
F02P 7/02	1-Punkt Untergruppe	. of distributors [1, 2006.01]
F02P 7/03	2-Punkt Untergruppe	.. with electrical means (ignition occurring simultaneously at different places in one engine cylinder or in two or more separate engine cylinders F02P 15/08) [4, 2006.01]
F02P 7/04	2-Punkt Untergruppe	.. having distributors with air-tight casing [1, 2006.01]
F02P 7/06	1-Punkt Untergruppe	. of circuit-makers or -breakers, or pick-up devices adapted to sense particular points of the timing cycle [1, 4, 2006.01]
F02P 7/063	2-Punkt Untergruppe	.. Mechanical pick-up devices, circuit-makers or -breakers, e.g. contact-breakers [4, 2006.01]
F02P 7/067	2-Punkt Untergruppe	.. Electromagnetic pick-up devices [4, 2006.01]
F02P 7/07	3-Punkt Untergruppe	... Hall-effect pick-up devices [4, 2006.01]
F02P 7/073	2-Punkt Untergruppe	.. Optical pick-up devices [4, 2006.01]
F02P 7/077	2-Punkt Untergruppe	.. Circuits therefor, e.g. pulse generators [4, 2006.01]
F02P 7/08	2-Punkt Untergruppe	.. having air-tight casings [1, 2006.01]
F02P 7/10	1-Punkt Untergruppe	. Drives of distributors or of circuit-makers or -breakers [1, 2006.01]
<b>F02P 9/00</b>	<b>Hauptgruppe</b>	<b>Electric spark ignition control, not otherwise provided for [1, 2006.01]</b>
<b>F02P 11/00</b>	<b>Hauptgruppe</b>	<b>Safety means for electric spark ignition, not otherwise provided for [1, 2006.01]</b>
F02P 11/02	1-Punkt Untergruppe	. Preventing damage to engines or engine-driven gearing [1, 2006.01]
F02P 11/04	1-Punkt Untergruppe	. Preventing unauthorised use of engines (of vehicles B60R 25/04; ignition locks H01H 27/00) [1, 2006.01]
F02P 11/06	1-Punkt Untergruppe	. Indicating unsafe conditions [1, 2006.01]

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<b>F02P 13/00</b>	<b>Hauptgruppe</b>	<b>Sparking plugs structurally combined with other parts of internal-combustion engines (with fuel injectors F02M 57/06; predominant aspects of the parts, <u>see the relevant subclasses</u>) [1, 2006.01]</b>
<b>F02P 15/00</b>	<b>Hauptgruppe</b>	<b>Electric spark ignition having characteristics not provided for in, or of interest apart from, groups F02P 1/00-F02P 13/00 [1, 2006.01]</b>
F02P 15/02	1-Punkt Untergruppe	. Arrangements having two or more sparking plugs [1, 2006.01]
F02P 15/04	1-Punkt Untergruppe	. one of the spark electrodes being mounted on the engine working piston [1, 2006.01]
F02P 15/06	1-Punkt Untergruppe	. the electric spark triggered by engine working cylinder compression [1, 2006.01]
F02P 15/08	1-Punkt Untergruppe	. having multiple-spark ignition, i.e. ignition occurring simultaneously at different places in one engine cylinder or in two or more separate engine cylinders [1, 2006.01]
F02P 15/10	1-Punkt Untergruppe	. having continuous electric sparks [1, 2006.01]
F02P 15/12	1-Punkt Untergruppe	. having means for strengthening spark during starting [1, 2006.01]
<b>F02P 17/00</b>	<b>Hauptgruppe</b>	<b>Testing of ignition installations, e.g. in combination with adjusting (testing fuel injection apparatus F02M 65/00; testing ignition installations in general F23Q 23/00); Testing of ignition timing in compression-ignition engines [1, 4, 2006.01]</b>
F02P 17/02	1-Punkt Untergruppe	. Checking or adjusting ignition timing [6, 2006.01]
F02P 17/04	2-Punkt Untergruppe	... dynamically [6, 2006.01]
F02P 17/06	3-Punkt Untergruppe	... using a stroboscopic lamp [6, 2006.01]
F02P 17/08	3-Punkt Untergruppe	... using a cathode-ray oscilloscope (F02P 17/06 takes precedence) [6, 2006.01]
F02P 17/10	1-Punkt Untergruppe	. Measuring dwell or antidwell time [6, 2006.01]
F02P 17/12	1-Punkt Untergruppe	. Testing characteristics of the spark, ignition voltage or current [6, 2006.01]
<b><u>Other ignition</u></b>		
<b>F02P 19/00</b>	<b>Hauptgruppe</b>	<b>Incandescent ignition, e.g. during starting of internal-combustion engines; Combination of incandescent and spark ignition [1, 4, 2006.01]</b>
F02P 19/02	1-Punkt Untergruppe	. electric, e.g. layout of circuits of apparatus having glowing plugs [1, 2006.01]
F02P 19/04	1-Punkt Untergruppe	. non-electric, e.g. heating incandescent spots by burners (use of burners for direct ignition F02P 21/00) [1, 2006.01]
<b>F02P 21/00</b>	<b>Hauptgruppe</b>	<b>Direct use of flames or burners for ignition [1, 2006.01]</b>
F02P 21/02	1-Punkt Untergruppe	. the flames being kept burning essentially external to engine working chambers [1, 2006.01]
F02P 21/04	1-Punkt Untergruppe	. Burning-cartridges or like inserts being arranged in engine working chambers (as starting aid F02N 19/02) [1, 2006.01]
<b>F02P 23/00</b>	<b>Hauptgruppe</b>	<b>Other ignition [1, 2006.01]</b>
F02P 23/02	1-Punkt Untergruppe	. Friction, pyrophoric, or catalytic ignition [1, 2006.01]
F02P 23/04	1-Punkt Untergruppe	. Other physical ignition means, e.g. using laser rays [1, 2006.01]