# CPC COOPERATIVE PATENT CLASSIFICATION

F MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING (NOTE omitted)

### **ENGINES OR PUMPS**

F02 COMBUSTION ENGINES (cyclically operating valves therefor, lubricating, exhausting, or silencing engines F01); HOT-GAS OR COMBUSTION-PRODUCT ENGINE PLANTS

## F02W INDEXING SCHEME RELATING TO TURBINES; GAS TURBINES

#### **NOTE**

This subclass constitutes an internal scheme for indexing only, associated with subclasses <u>F01D</u>, <u>F01K</u>, <u>F02C</u> and <u>F02K</u>, relating to turbines and gas turbines

2746/00	Indexing scheme associated with former IdT class 46F	2746/00085 . Turbines using several gases or steams with separate action (R02C746/00F13 takes
2746/00006	Turbines; Gas turbines	precedence)
	Turbines with combustion chamber whose inlet and outlet open and close periodically; Explosion turbines	2746/00092 Turbines other than those according to groups R02C746/00F1 - R02C746/00F15, counterrotating turbines
2746/00019	. Methods for improving the efficiency, special cycles, refrigeration by means of turbines, gas turbine plants with heat pumps (R02C746/00F8 takes precedence), indirect heating by circulation of an auxiliary fluid (gas turbine plants comprising separators for ashes consisting of	<ul> <li>2746/00098 Turbines using fluid friction</li> <li>2746/00105 Special kinds of reaction turbines; Turbines with blades having channels passing through the rotor</li> <li>2746/00111 Explosion turbines, i.e. internal combustion</li> <li>2746/00118 Turbines with saw-tooth or ratchet-wheel</li> </ul>
2746/00026	matters put in circulation and being used at the same time for heat transfer R02C746/00F30N)  using combustion gas, gas turbines functioning	shaped rotor  2746/00125 Propeller and similar turbines driven by reaction, e.g. fluids issuing from the rotor
2746/00032	by means of exhaust gas  using magnetohydrodynamic generators	2746/00131 Turbines with radial entry (gas turbines driven by exhaust gas R02C746/00F5A)
	Turbines with special provisions for the compression of fuel gas or of its components, plants in which the compressor and the turbine form a unit, groups of compression of charge or complement for gas turbine cycles, compression by shock waves (burners with pulsatory)	2746/00138 Cooling 2746/00144 Cooling of gas; Cooling of oil 2746/00151 Components and control; Inversion of rotation; Turbines with forward and reverse rotation 2746/00157 Blades and blade carrying members 2746/00164 Turbine rotors, e.g. multistage; Assembly;
2746/00046	<ul> <li>combustion R02C746/00F1, R02C746/00F30N6)</li> <li>Compression in the rotor for the turbine blades, turbines also functioning as compressor, cell compressors (plants with cellular wheel R02C746/00F40A)</li> </ul>	2746/00171 Safety and control devices; Test benches 2746/00177 Starting devices, e.g. quick-starting devices 2746/00184 using starting cartridges
2746/00052	Turbines using a single driven special gas, use of catalysts, use of oxyhydric gas or detonating gas, use of air or liquid oxygen, using of gas generating cartridges, use of compressed air tanks, air turbines, provisions for preventing the formation of snow or frost in the turbine, turbines for hand-held tools	<ul> <li>2746/0019 Elements specifically intended for combustion turbines, pulverulent and solid fuel turbines; Separation of ashes</li> <li>2746/00197 Fuel supply and feeding devices, e.g. preprocessing of fuel, pumps, valves, draining of the fuel system</li> <li>2746/00203 Combustion chambers with admission</li> </ul>
2746/00059	Turbines using mixtures of gas and steam as driving medium, also if the gas and steam currents only mix after the turbine, water injection	valves, control, scavenging and filling 2746/0021  • Plants with specific use of turbines; Construction of power stations with gas turbines 2746/00217  • Plants comprising a turbine of a special kind,
	<ul><li>Turbines using an auxiliary liquid</li><li>the auxiliary liquid making a to-and-fro</li></ul>	plants with cellular wheel; Grouping of the various parts of a plant
	movement  the auxiliary liquid being circulated in a close circuit	2746/00223 Turbo-compressor plants for providing compressed air or gases, hot gases or steam, control of these plants
	encun	2746/0023 Propulsion plants, e.g. marine turbines

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274600243 Control of the gas turbines in groupdation plants, e.g. for ships of turbo propulsion (control of gas turbines in general R02C74600F36, control of feel supply R02C74600F36, control of feel supply R02C74600F36. Control of control supple day other gas generators e.g. with free platons paragenerators. e.g. with control according to feel surbines in generators. e.g. with control according to according to one or several pressures. and of one or several pressures and of one or several pressures. Parameters with control according to one or several pressures. Parameters with control according to one or several pressures and of one or several pressures. Parameters with control according to one or several pressures. Parameters with control according to one or several pressures and of one or sever	2746/00236 Turbine plants for gas-turbine locomotives	2746/00414 with control according to one or several
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274600256   Cas turbine plants for matire propulsion than those consisting in a combination of combustion chambers and axial or centrifugal compressors.	(control of gas turbines in general	several pressures and of one or several
274600263	R02C746/00F45 - R02C746/00F48)	2746/00427 with control according to at least three
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2746/00605 with control according to one or several pressures	2746/00802 Components and parts of control systems according to
2746/00611 with control according to one or several	R02C746/00F45B - R02C746/00F45J
temperatures	2746/00809 with control according to one parameter
2746/00618 with control according to two parameters	2746/00815 with control according to one or several
2746/00625 with control according to one or several speeds and of one or several pressures	speeds  2746/00822 with control according to one or several
2746/00631 with control according to one or several speeds and of one or several temperatures	pressures  2746/00828 with control according to one or several
2746/00638 with control according to one or	temperatures
several pressures and of one or several	2746/00835 with control according to two parameters
temperatures	2746/00842 with control according to one or several
2746/00644 with control according to at least three	speeds and of one or several pressures
parameters	2746/00848 with control according to one or several
2746/00651 with control according to one or several	speeds and of one or several temperatures
speeds, of one or several pressures and of	2746/00855 with control according to one or
one or several temperatures	several pressures and of one or several
2746/00657 using a fuel pump with non-adjustable flow	temperatures
and at least one adjustable by-pass valve (R02C746/00F45J takes precedence)	2746/00861 with control according to at least three
	parameters
2746/00664 with control according to one parameter 2746/00671 with control according to one or several	2746/00868 with control according to one or several speeds, of one or several pressures and of
speeds	one or several temperatures
2746/00677 with control according to one or several	2746/00875 Construction of adjustable valves
pressures	2746/00881 Control systems for the fuel supply to the
2746/00684 with control according to one or several	main burners as well as to the after-burners
temperatures	of a single gas turbine, or with regulation of
2746/0069 with control according to two parameters	another adjustable component of the gas turbine
2746/00697 with control according to one or several	(control systems for the fuel supply only to
speeds and of one or several pressures	the main burners or only to the after-burners
2746/00703 with control according to one or several	R02C746/00F45, R02C746/00F48)
speeds and of one or several temperatures	2746/00888 of additional fuel injection between the
2746/0071 with control according to one or	after-burners to ignite them, e.g. "hot-shot",
several pressures and of one or several	programming devices for the ignition of after-
temperatures	burners
2746/00717 with control according to at least three	2746/00894 of the fuel supply to the main burners and to the after-burners (R02C746/00F46G takes
parameters	precedence)
2746/00723 with control according to one or several	2746/00901 of the fuel supply to the main burners and
speeds, of one or several pressures and of	to the nozzle (R02C746/00F46G takes
one or several temperatures  2746/0073 using a fuel pump with non-adjustable flow, at	precedence)
least one adjustable valve between pump and	2746/00907 of the fuel supply to the after-burners and to the
burners, and at least one adjustable by-pass	nozzle (R02C746/00F46G takes precedence)
valve	2746/00914 of the fuel supply to the main burners, to the
2746/00736 with control according to one parameter	after-burners and to the nozzle
2746/00743 with control according to one or several	2746/00921 of the fuel supply to the main burners and of
speeds	the adjustable stator vanes of the gas turbine
2746/0075 with control according to one or several	2746/00927 Systems for controlling the fuel supply to the
pressures	injectors and a variable-pitch propeller driven
2746/00756 with control according to one or several	by the gas turbine
temperatures	2746/00934 Systems for controlling the fuel supply to the
2746/00763 with control according to two parameters	injectors and the by-passing of the driving fluid
2746/00769 with control according to one or several	2746/0094 . Systems for controlling the fuel supply to the burners of gas turbine plants not foreseen in
speeds and of one or several pressures	R02C746/00F45 or R02C746/00F46
2746/00776 with control according to one or several	2746/00947 specially adapted to the use of a special fuel or
speeds and of one or several temperatures	a plurality of fuels
2746/00782 with control according to one or	2746/00953 using two pumps or more
several pressures and of one or several temperatures	2746/0096 for the combined control of two gas turbine
2746/00789 with control according to at least three	plants or more
parameters	2746/00967 for dividing the fuel between the main burners
2746/00796 with control according to one or several	or between the after-burners of a single gas
speeds, of one or several pressures and of	turbine (division of fuel between main burners
one or several temperatures	and after-burners R02C746/00F46)

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2746/00973 . . . specially adapted for aircraft gas turbine engines, in which the control is a function of the speed of the aircraft; Mach number control, optimisation of fuel consumption
 2746/0098 . . Control systems provided with an additional control system which can take over in case of a breakdown of the normal system, safety devices
 2746/00986 . . . specially adapted for gas turbine plants with intermittent fuel injection
 2746/00993 . . Mechanical control devices linked to the throttle lever

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