CPC COOPERATIVE PATENT CLASSIFICATION

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

LIGHTING; **HEATING**

F23 COMBUSTION APPARATUS; COMBUSTION PROCESSES

(NOTE omitted)

F23R GENERATING COMBUSTION PRODUCTS OF HIGH PRESSURE OR HIGH VELOCITY, e.g. GAS-TURBINE COMBUSTION CHAMBERS (fluidised bed combustion apparatus specially adapted for operation at superatmospheric pressures F23C 10/16)

WARNING

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.

3/00	Continuous combustion chambers using liquid or	3/343	• • {Pilot flames, i.e. fuel nozzles or injectors
	gaseous fuel		using only a very small proportion of the total
3/002	• {Wall structures (<u>F23R 3/02</u> and <u>F23R 3/007</u> take		fuel to insure continuous combustion (ignition
	precedence)}		in gas-turbine plants <u>F02C 7/264</u> ; pilot flame
3/005	• {Combined with pressure or heat exchangers}		igniters <u>F23Q 9/00</u>)}
3/007	 {constructed mainly of ceramic components} 	3/346	• • • {for staged combustion}
3/02	 characterised by the air-flow or gas-flow 	3/36	• • Supply of different fuels
	configuration (reverse- flow combustion chambers	3/38	 comprising rotary fuel injection means
	F23R 3/54; cyclone or vortex type combustion	3/40	 characterised by the use of catalytic means
	chambers <u>F23R 3/58</u>)	3/42	 characterised by the arrangement or form of the
3/04	Air inlet arrangements		flame tubes or combustion chambers
3/045	• • {using pipes}	3/425	• • {Combustion chambers comprising a tangential
3/06	Arrangement of apertures along the flame tube		or helicoidal arrangement of the flame tubes}
3/08	• • • between annular flame tube sections, e.g.	3/44	• • Combustion chambers comprising a {single}
	flame tubes with telescopic sections		tubular flame tube within a tubular casing
3/10	• • • for primary air (<u>F23R 3/06</u> , <u>F23R 3/045</u> take		(reverse-flow combustion chambers <u>F23R 3/54</u>)
	precedence)	3/46	Combustion chambers comprising an annular
3/12	inducing a vortex		arrangement of {several essentially tubular}
3/14	by using swirl vanes		flame tubes within a common annular casing or
3/16	with devices inside the flame tube or the		within individual casings
	combustion chamber to influence the air or gas flow	3/48	Flame tube interconnectors, e.g. cross-over tubes
3/18		3/50	Combustion chambers comprising an annular
3/18	 Flame stabilising means, e.g. flame holders for after-burners of jet-propulsion plants 	2,24	flame tube within an annular casing (toroidal
3/20	incorporating fuel injection means		combustion chambers <u>F23R 3/52</u>)
3/20	movable, e.g. to an inoperative position;	3/52	Toroidal combustion chambers
3/22	adjustable, e.g. to an inoperative position,	3/54	Reverse-flow combustion chambers
3/24	of the fluid-screen type	3/56	Combustion chambers having rotary flame tubes
3/24	Controlling the air flow	3/58	Cyclone or vortex type combustion chambers
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3/28	• characterised by the fuel supply (burners <u>F23D</u>)		-
3/283	 {Attaching or cooling of fuel injecting means including supports for fuel injectors, stems, or 	5/00	Continuous combustion chambers using solid or
	lances }		pulverulent fuel
3/286	• • {having fuel-air premixing devices (F23R 3/30)	7/00	Intermittent or explosive combustion chambers
3/200	takes precedence)}	7700	intermittent of explosive compassion chambers
3/30	• comprising fuel prevapourising devices	2900/00	Special features of, or arrangements for
3/30	being tubular		continuous combustion chambers; Combustion
3/34	Feeding into different combustion zones		processes therefor
3/34	recuing into different combustion zones	2900/00001	. Arrangements using bellows, e.g. to adjust volumes
			or reduce thermal stresses
		2900/00002	Gas turbine combustors adapted for fuels having

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low heating value [LHV]

 2900/00004 . Preventing formation of deposits on surfaces of gas turbine components, e.g. coke deposits 2900/00005 . Preventing fatigue failures or reducing mechanical stress in gas turbine components 2900/00006 . Using laser for starting or improving the combustion process 2900/00008 . Combustion techniques using plasma gas (plasma torches F23R 2900/00009) 2900/00009 . Using plasma torches for igniting, stabilizing, or improving the combustion process 2900/00012 . Details of sealing devices 2900/00013 . Reducing thermo-acoustic vibrations by active means 2900/00014 . Reducing thermo-acoustic vibrations by passive means, e.g. by Helmholtz resonators (silence apparatus using resonance F01N 1/023) 2900/00015 . Trapped vortex combustion chambers 2900/00016 . Retrofitting in general, e.g. to respect new regulations on pollution 2900/00017 . Assembling combustion chamber liners or subparts 2900/00018 . Manufacturing combustion chamber liners or subparts 2900/00019 . Repairing or maintaining combustion chamber liners or subparts 2900/03041 . Effusion cooled combustion chamber walls or domes 2900/03042 . Film cooled combustion chamber walls or domes 2900/03043 . Convection cooled combustion chamber walls or subassemblies 2900/03044 . Impingement cooled combustion chamber walls or subassemblies 2900/03045 . Convection cooled combustion chamber walls or subassemblies 2900/03045 . Convection cooled combustion chamber walls or subassemblies 2900/03046 . Inpingement cooled combustion chamber walls or subassemblies 2900/03047 . High speed injection of air and/or fuel inducing internal recirculation 2900/03281 . Intermittent fuel injection or supply with plunger pump or other means therefor 2900/03341 . Sequential combustion chambers or burners 2900/03342 . Arrangement of silo-type combustion chambers 	2000/00004	
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pump or other means therefor 2900/03282 • High speed injection of air and/or fuel inducing internal recirculation 2900/03341 • Sequential combustion chambers or burners 2900/03342 • Arrangement of silo-type combustion chambers	2900/03281	
 2900/03282		
2900/03341 . Sequential combustion chambers or burners2900/03342 . Arrangement of silo-type combustion chambers	2900/03282	
2900/03342 . Arrangement of silo-type combustion chambers		
	2900/03341	 Sequential combustion chambers or burners
2000/02242 Pil + l	2900/03342	Arrangement of silo-type combustion chambers
2900/05545 • Pilot burners operating in premixed mode	2900/03343	Pilot burners operating in premixed mode

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