

# CPC COOPERATIVE PATENT CLASSIFICATION

## F23M CASINGS, LININGS, WALLS OR DOORS SPECIALLY ADAPTED FOR COMBUSTION CHAMBERS, e.g. FIREBRIDGES; DEVICES FOR DEFLECTING AIR, FLAMES OR COMBUSTION PRODUCTS IN COMBUSTION CHAMBERS; SAFETY ARRANGEMENTS SPECIALLY ADAPTED FOR COMBUSTION APPARATUS; DETAILS OF COMBUSTION CHAMBERS, NOT OTHERWISE PROVIDED FOR

<b>3/00</b>	<b>Firebridges</b>	11/042	. . {Viewing ports of windows}
3/02	. modified for circulation of fluids, e.g. air, steam, water	11/045	. . {by observing the flame}
3/04	. . for delivery of gas, e.g. air, steam	11/047	. . {by observing the flue gas (controlling combustion using gas detectors <a href="#">F23N 5/003</a> )}
3/06	. . . into or towards fire		
3/08	. . . away from fire, e.g. towards smoke outlet	<b>20/00</b>	<b>Details of combustion chambers, not otherwise provided for {, e.g. means for storing heat from flames}</b>
3/10	. . . transversely		
3/12	. characterised by shape or construction ( <a href="#">F23M 3/02</a> takes precedence)	20/005	. {Noise absorbing means}
3/14	. . with apertures for passage of combustion products	<b>2700/00</b>	<b>Constructional details of combustion chambers</b>
3/16	. . built-up in sections, e.g. using bars or blocks	2700/005	. Structures of combustion chambers or smoke ducts
3/18	. . double; multiple	2700/0053	. . Bricks for combustion chamber walls
3/20	. . comprising loose refractory material, wholly or in part	2700/0056	. . Bricks for water tube combustion chamber walls
3/22	. movable; adjustable	2700/007	. Automatic fire extinguishing devices
		2700/008	. Preventing outwards emission of flames or hot gases
<b>5/00</b>	<b>Casings; Linings; Walls (construction or support of tube walls for steam boilers <a href="#">F22B</a>)</b>	<b>2900/00</b>	<b>Special features of, or arrangements for combustion chambers</b>
5/02	. characterised by the shape of the bricks or blocks used (ceramic materials <a href="#">C04B 33/00</a> , <a href="#">C04B 35/00</a> )	2900/05001	. Preventing corrosion by using special lining materials or other techniques
5/025	. . {specially adapted for burner openings}	2900/05002	. Means for accommodate thermal expansion of the wall liner
5/04	. Supports for linings	2900/05003	. Details of manufacturing specially adapted for combustion chambers
5/06	. Crowns or roofs for combustion chambers ( <a href="#">F23M 5/02</a> , <a href="#">F23M 5/04</a> take precedence)	2900/05004	. Special materials for walls or lining
5/08	. Cooling thereof; Tube walls	2900/05005	. Sealing means between wall tiles or panels
5/085	. . {using air or other gas as the cooling medium}	2900/05021	. Wall blocks adapted for burner openings
		2900/09061	. Moving baffles, e.g. rotating baffles, for creating vortices
<b>7/00</b>	<b>Doors</b>	2900/09062	. Tube-shaped baffles confining the flame (flame tubes forming part of the burner head <a href="#">F23D 2900/11403</a> )
7/02	. Frames therefor	2900/11021	. Means for avoiding accidental fires in rooms where the combustion device is located
7/04	. Cooling doors or door frames	2900/11041	. Means for observing or monitoring flames using photoelectric devices, e.g. phototransistors
<b>9/00</b>	<b>Baffles or deflectors for air or combustion products (structurally associated with burners <a href="#">F23D</a>); Flame shields</b>	2900/13001	. Energy recovery by fuel cells arranged in the combustion plant
9/003	. {in flue gas ducts}	2900/13002	. Energy recovery by heat storage elements arranged in the combustion chamber
9/006	. . {Backflow diverters}	2900/13003	. Energy recovery by thermoelectric elements, e.g. by Peltier/Seebeck effect, arranged in the combustion plant
9/02	. in air inlets	2900/13004	. Energy recovery by thermo-photo-voltaic [TPV] elements arranged in the combustion plant
9/04	. with air supply passages in the baffle or shield		
9/06	. in fire-boxes		
9/08	. Helical or twisted baffles or deflectors		
9/10	. Baffles or deflectors formed as tubes, e.g. in water-tube boilers (interconnection of such tubes in boilers for fluid flow <a href="#">F22</a> )		
<b>11/00</b>	<b>Safety arrangements (structurally associated with burners <a href="#">F23D</a>; for liquid fuel feeding <a href="#">F23K 5/16</a>; involving control of combustion <a href="#">F23N 5/24</a>; structurally associated with igniters <a href="#">F23Q</a>)</b>		
11/02	. Preventing emission of flames or hot gases, or admission of air, through working or charging apertures		
11/04	. Means for supervising combustion, e.g. window (alarm systems <a href="#">G08B</a> )		