CPC COOPERATIVE PATENT CLASSIFICATION

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

LIGHTING; **HEATING**

F24 HEATING; RANGES; VENTILATING

(NOTE omitted)

F24D DOMESTIC- OR SPACE-HEATING SYSTEMS, e.g. CENTRAL HEATING SYSTEMS; DOMESTIC HOT-WATER SUPPLY SYSTEMS; ELEMENTS OR COMPONENTS

THEREFOR (using steam or condensate extracted or exhausted from steam engine plants for heating purposes <u>F01K 17/02</u>)

NOTE

In this subclass, the following expression is used with the meaning indicated:

 "Central heating system" means a system in which heat is generated or stored at central sources and is distributed by means of a transfer fluid to the spaces or areas to be heated.

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.}

Central Heating Systems			• • {expansion tanks}
1/00	Steam central heating systems (district heating systems <u>F24D 10/00</u> ; central heating systems using heat accumulated in storage masses <u>F24D 11/00</u>)	3/1016 3/1025 3/1033	 {Tanks having a bladder} {Compressor controlled pressure heads} {with compressed gas cylinder}
1/005	 {in combination with systems for domestic water supply} 	3/1041 3/105	 {Flow-through} {pumps combined with multiple way valves}
1/02	 operating with live steam {(<u>F24D 1/005</u> takes precedence)} 	3/1058 3/1066	 { disposition of pipes and pipe connections } { Distributors for heating liquids }
1/04	 operating with exhaust steam {(<u>F24D 1/005</u> takes precedence)} 	3/1075 3/1083	 {Built up from modules}. {Filling valves or arrangements for filling}
1/06	 operating with superheated steam {(<u>F24D 1/005</u> takes precedence)} 	3/1091 3/12	• {Mixing cylinders}• Tube and panel arrangements for ceiling, wall,
1/08	 Feed-line arrangements, e.g. providing for heat- accumulator tanks, expansion tanks 		or underfloor heating (electric underfloor heating F24D 13/02)
3/00	Hot-water central heating systems (district heating systems F24D 10/00; central heating systems using	3/122 3/125 3/127	. {Details} {Hydraulic pipe connections} {Mechanical connections between panels}
3/005	heat accumulated in storage masses <u>F24D 11/00</u>) • {combined with solar energy (solar heat collectors per se <u>F24S</u>)}	3/14 3/141	incorporated in a ceiling, wall or floor{Tube mountings specially adapted therefor}
3/02	• with forced circulation, e.g. by pumps (pump constructions F04)	3/142 3/143	 {integrated in prefab construction elements} {Tube clips with barbed anchors}
3/04 3/06	with the water under high pressureArrangements or devices for maintaining high	3/144	 {Clips for fastening heating tubes on a reinforcement net or mesh, e.g. mesh for concrete reinforcement}
3/08	pressure in combination with systems for domestic hot-water supply	3/145	• • {Convecting elements concealed in wall or floor}
3/082	Hot water storage tanks specially adapted therefor}	3/146	• • • {Tubes specially adapted for underfloor heating}
3/085	• • • {Double-walled tanks}	3/147	• • • {arranged in facades}
3/087	Tap water heat exchangers specially adapted	3/148	• • • { with heat spreading plates }
5,00,	therefore}	3/149 3/16	• • • {Tube-laying devices}
3/10	Feed-line arrangements, e.g. providing for heat-		• • mounted on, or adjacent to, a ceiling, wall or floor
	accumulator tanks, expansion tanks {; Hydraulic	3/165	• • • {Suspended radiant heating ceiling}
	components of a central heating system}	3/18	 using heat pumps

Central Heating Systems F24D

5/00	Hot-air central heating systems (district heating systems <u>F24D 10/00</u> ; central heating systems using heat accumulated in storage masses <u>F24D 11/00</u> ; air conditioning <u>F24F</u>); Exhaust gas central heating	12/02	• having more than one heat source (using heat pumps, in water central heating systems F24D 3/18; in air central heating systems F24D 5/12; in systems using heat storage masses F24D 11/02)
	systems	0.0	
5/005	• {combined with solar energy}	Other domes	stic- or space-heating systems
5/02	• operating with discharge of hot air into the space or	13/00	Electric heating systems
F /O.4	area to be heated	13/02	 solely using resistance heating, e.g. underfloor
5/04 5/06	 with return of the air or the air-heater operating without discharge of hot air into the space 		heating
3/00	or area to be heated	13/022	 {resistances incorporated in construction elements}
5/08	with hot air led through radiators	13/024	• • • {in walls, floors, ceilings}
5/10	with hot air led through heat-exchange ducts in	13/026	· · · {in door, windows}
5/12	the walls, floor or ceiling using heat pumps	13/028	• • • {Glass panels, e.g. mirrors, design radiators,
7/00	Central heating systems employing heat- transfer fluids not covered by groups	13/04	etc.}using electric heating of heat-transfer fluid in separate units of the system
	F24D 1/00 - F24D 5/00, e.g. oil, salt or gas (district	15/00	Other demostic or speed heating systems
	heating systems <u>F24D 10/00</u> ; central heating	15/00	Other domestic- or space-heating systems consisting of self-contained heating units, e.g.
	systems using heat accumulated in storage masses	13/02	storage heaters
	<u>F24D 11/00</u>)	15/04	 using heat pumps
9/00	Central heating systems employing combinations	17/00	
	of heat transfer fluids covered by two or more	17/00 17/0005	Domestic hot-water supply systems • {using recuperation of waste heat (F24D 17/0036
	of groups <u>F24D 1/00</u> - <u>F24D 7/00</u> (district heating	17/0003	takes precedence)}
	systems <u>F24D 10/00</u> ; central heating systems using heat accumulated in storage masses <u>F24D 11/00</u>)	17/001	• • {with accumulation of heated water}
9/02	Hot water and steam systems	17/0015	• {using solar energy (F24D 17/0036 takes
	•		precedence)}
10/00	District heating systems	17/0021	• • {with accumulation of the heated water}
10/003	 {Domestic delivery stations having a heat exchanger} 	17/0026	 {with conventional heating means (<u>F24D 17/0036</u>) takes precedence)}
10/006	• {Direct domestic delivery stations}	17/0031	. { with accumulation of the heated water}
		17/0031	• {with accumulation of the neared water} • {with combination of different kinds of heating
11/00	Central heating systems using heat accumulated in storage masses (self-contained storage heating units		means}
	F24D 15/02)	17/0042	• • {recuperated waste heat and solar energy}
11/001	• {district heating system}	17/0047	• • { with accumulation of the heated water}
11/002	• {water heating system}	17/0052	• • {recuperated waste heat and conventional heating
11/003	• • {combined with solar energy}	17/0057	means}
11/004	• • {with conventional supplementary heat source}	17/0057 17/0063	. • {with accumulation of the heated water}. • {solar energy and conventional heaters}
11/005	• • {with recuperation of waste heat}	17/0068	. {solar chergy and conventional nearers} {with accumulation of the heated water}
11/006	• {air heating system}	17/0073	• {Arrangements for preventing the occurrence or
11/007	• (combined with solar energy)		proliferation of microorganisms in the water}
11/008 11/009	. {with conventional supplementary heat source}. {with recuperation of waste heat}	17/0078	• {Recirculation systems}
11/009	. {with recuperation of waste neat}. using heat pumps	17/0084	• • {Coaxial tubings}
11/0207	district heating system}	17/0089	• {Additional heating means, e.g. electric heated
11/0214	• {water heating system}		buffer tanks or electric continuous flow heaters,
11/0221	{combined with solar energy}		located close to the consumer, e.g. directly before the water taps in bathrooms, in domestic hot water
11/0228	{combined with conventional heater}		lines}
11/0235	• • { with recuperation of waste energy}	17/0094	• {Recovering of cold water}
11/0242	• • • {contained in exhausted air}	17/02	 using heat pumps
11/025	• • • {contained in waste water}	18/00	Small-scale combined heat and power [CHP]
11/0257	• { air heating system }	10/00	generation systems specially adapted for domestic
11/0264	{combined with solar energy}		heating, space heating or domestic hot-water
11/0271	{combined with conventional energy}		supply
11/0278 11/0285	 { with recuperation of waste energy } { contained in exhausted air }		<u>NOTE</u>
11/0283	{contained in exhausted air} {contained in waste water}		In this group, it is desirable to add the indexing
12/00	Other central heating systems		codes of groups <u>F24D 2101/00</u> - <u>F24D 2105/00</u> .

19/00	Details (of water or air heaters <u>F24H 9/00</u> ; of heat-	19/0226	{Additional means supporting the process of
	exchange or heat-transfer apparatus, of general application <u>F28F</u>)	19/023	mounting} {Radiators having fixed suspension means for
19/0002	 {Means for connecting central heating radiators to circulation pipes} 	19/0233	connecting the radiator to the support means} {Templates for installing the radiator}
19/0004	{In a one pipe system}	19/0236	• • • {Water tubes or pipes forming part of the
19/0007	{Comprising regulation means}		supporting means}
19/0009	• {In a two pipe system}	19/024	• • {Functioning details of supporting means for
19/0012	{Comprising regulation means}		radiators}
19/0014	• • {Connection means adaptable for one and two	19/0243	• • • {Means for moving the radiator horizontally to
157001.	pipe systems}		adjust the radiator position}
19/0017	{Connections between supply and inlet or outlet of central heating radiators}	19/0246	• • • {Means for moving the radiator vertically to adjust the radiator position}
19/0019	• • {Means for adapting connections}	19/025	{Eccentric means for moving the radiator
19/0021	• • {Flexible tubes or hoses}		vertically}
19/0024	{Connections for plate radiators}	19/0253	• • • {Adjusting a dimension, e.g. length, of the
19/0026	• • {Places of the inlet on the radiator}		radiator support, e.g. telescopic rails}
19/0029	• • {on a top corner}	19/0256	• • • {Radiators clamped by supporting means}
19/0031	• • {on the top in the middle}	19/0259	• • • • {Radiators clamped by supporting means
19/0034	• • {on a bottom corner}		around a column or tube}
19/0036	• • {on the bottom in the middle}	19/0263	• • • • {Radiators clamped by supporting means
19/0039	• {Places of the outlet on the radiator}		between two columns or tubes}
19/0037	• • { on the top in the middle }	19/0273	• • • {Radiators fixed in order to prevent undesired
19/0041	• • {on the opposite top corner}		detachment}
19/0045		19/0276	• • • • {Radiators fixed on the bottom}
	(on the lottom in the middle)	19/0279	• • • {Radiators fixed on the sides}
19/0048	• • {on the bottom in the middle}	19/0283	• • • {Radiators fixed on the top}
19/0051	• • • {on the bottom on the opposite corner}	19/0286	• • • {Radiators fixed using a spring}
19/0053	• • • {on the bottom on the same side}	19/0289	• • • {Radiators fixed using a flexible clip}
19/0056	• • {Supplies from the central heating system}	19/0293	• • {Radiators rotating without being demounted}
19/0058	• • • {coming out the floor}	19/04	in skirtings
19/006	{Alongside the radiator}	19/06	Casings, cover lids or ornamental panels, for
19/0063	• • • {under the radiator}		radiators
19/0065	• • • {coming out the wall}	19/061	• • {Radiator shelves}
19/0068	• • • {alongside the radiator}	19/062	• • {Heat reflecting or insulating shields}
19/007	• • • {under the radiator}	19/064	• • {Coverings not directly attached to a radiator, e.g.
19/0073	• • {Means for changing the flow of the fluid inside a		box-like coverings}
	radiator}	19/065	• • {Grids attached to the radiator and covering its
19/0075	• • {Valves for isolating the radiator from the		top}
	system}	19/067	• • {Front coverings attached to the radiator}
19/0078	{Plugs}	19/068	• • {Side coverings attached to the radiator}
19/008	• {Details related to central heating radiators}	19/08	Arrangements for drainage, venting or aerating
19/0082	• • {Humidifiers for radiators}		(valves for venting or aerating <u>F16K 24/00</u>)
19/0085	• • {Fresh air entries for air entering the room to be	19/081	• • {for steam heating systems}
	heated by the radiator}	19/082	• • {for water heating systems}
19/0087	• • {Fan arrangements for forced convection}	19/083	• • {Venting arrangements}
19/009	• • {Magnets, e.g. for attaching a cover}	19/085	• • • • {Arrangement of venting valves for central
19/0092	 {Devices for preventing or removing corrosion, slime or scale} 		heating radiators}
10/0005		19/086	• • • • {hand-operated}
19/0095	• {Devices for preventing damage by freezing}	19/087	• • • • {automatic}
19/0097	• {Casings or frame structures for hydraulic	19/088	• • • {Draining arrangements}
10/02	components}	19/10	 Arrangement or mounting of control or safety
19/02	Arrangement of mountings or supports for radiators (T)		devices (only the heater being controlled
19/0203	• • {Types of supporting means}		F24H 9/20)
19/0206	{Tube shaped supports inserted into a wall}		WARNING
19/0209	• • • {Supporting means having bracket}		
19/0213	• • • {Floor mounted supporting means}		Group F24D 19/10 is impacted
19/0216	• • • {Supporting means having a rail}		by reclassification into groups
19/022	• • {Constructional details of supporting means for		<u>F24H 15/00</u> - <u>F24H 15/493</u> .
	radiators}		All groups listed in this Warning should be
19/0223	• • • {Distance pieces between the radiator and the wall}		considered in order to perform a complete search.

19/1003 . . {for steam heating systems}

WARNING

Group <u>F24D 19/1003</u> is impacted by reclassification into groups <u>F24H 15/00</u> - F24H 15/493.

All groups listed in this Warning should be considered in order to perform a complete search.

19/1006 . . {for water heating systems}

WARNING

Group <u>F24D 19/1006</u> is impacted by reclassification into groups <u>F24H 15/00</u> - F24H 15/493.

All groups listed in this Warning should be considered in order to perform a complete search

19/1009 . . . {for central heating}

WARNING

Group F24D 19/1009 is impacted by reclassification into groups F24H 15/00 - F24H 15/493.

All groups listed in this Warning should be considered in order to perform a complete search.

19/1012 {by regulating the speed of a pump}

WARNING

Group F24D 19/1012 is impacted by reclassification into groups F24H 15/00 - F24H 15/493.

All groups listed in this Warning should be considered in order to perform a complete search.

19/1015 {using a valve or valves}

WARNING

Group <u>F24D 19/1015</u> is impacted by reclassification into groups <u>F24H 15/00</u> - F24H 15/493.

All groups listed in this Warning should be considered in order to perform a complete search.

19/1018 {Radiator valves}

WARNING

Group <u>F24D 19/1018</u> is impacted by reclassification into groups <u>F24H 15/00</u> - F24H 15/493.

All groups listed in this Warning should be considered in order to perform a complete search. 19/1021 {a by pass valve}

WARNING

Group <u>F24D 19/1021</u> is impacted by reclassification into groups <u>F24H 15/00</u> - F24H 15/493.

All groups listed in this Warning should be considered in order to perform a complete search.

19/1024 {a multiple way valve}

WARNING

Group F24D 19/1024 is impacted by reclassification into groups F24H 15/00 - F24H 15/493.

All groups listed in this Warning should be considered in order to perform a complete search.

19/1027 {hand operated}

WARNING

Group <u>F24D 19/1027</u> is impacted by reclassification into groups <u>F24H 15/00</u> - <u>F24H 15/493</u>.

All groups listed in this Warning should be considered in order to perform a complete search.

19/103 {bimetal operated}

WARNING

Group F24D 19/103 is impacted by reclassification into groups F24H 15/00 - F24H 15/493.

All groups listed in this Warning should be considered in order to perform a complete search.

19/1033 {motor operated}

WARNING

Group F24D 19/1033 is impacted by reclassification into groups F24H 15/00 - F24H 15/493.

All groups listed in this Warning should be considered in order to perform a complete search.

19/1036 {Having differential pressure measurement facilities}

WARNING

Group <u>F24D 19/1036</u> is impacted by reclassification into groups <u>F24H 15/00</u> - <u>F24H 15/493</u>.

All groups listed in this Warning should be considered in order to perform a complete search.

19/1039 . . . {the system uses a heat pump}

WARNING

Group <u>F24D 19/1039</u> is impacted by reclassification into groups <u>F24H 15/00</u> - F24H 15/493.

All groups listed in this Warning should be considered in order to perform a complete search.

19/1042 {the system uses solar energy}

WARNING

Group <u>F24D 19/1042</u> is impacted by reclassification into groups <u>F24H 15/00</u> - F24H 15/493.

All groups listed in this Warning should be considered in order to perform a complete search.

19/1045 { the system uses a heat pump and solar energy}

WARNING

Group F24D 19/1045 is impacted by reclassification into groups F24H 15/00 - F24H 15/493.

All groups listed in this Warning should be considered in order to perform a complete search.

19/1048 {Counting of energy consumption}

WARNING

Group <u>F24D 19/1048</u> is impacted by reclassification into groups <u>F24H 15/00</u> - <u>F24H 15/493</u>.

All groups listed in this Warning should be considered in order to perform a complete search.

19/1051 . . . {for domestic hot water}

WARNING

Group <u>F24D 19/1051</u> is impacted by reclassification into groups <u>F24H 15/00</u> - F24H 15/493.

All groups listed in this Warning should be considered in order to perform a complete search.

19/1054 . . . {the system uses a heat pump}

WARNING

Group <u>F24D 19/1054</u> is impacted by reclassification into groups <u>F24H 15/00</u> - F24H 15/493.

All groups listed in this Warning should be considered in order to perform a complete search. 19/1057 {the system uses solar energy}

WARNING

Group <u>F24D 19/1057</u> is impacted by reclassification into groups <u>F24H 15/00</u> - F24H 15/493.

All groups listed in this Warning should be considered in order to perform a complete search.

19/106 . . . { the system uses a heat pump and solar energy}

WARNING

Group <u>F24D 19/106</u> is impacted by reclassification into groups <u>F24H 15/00</u> - <u>F24H 15/493</u>.

All groups listed in this Warning should be considered in order to perform a complete search.

19/1063 {counting of energy consumption}

WARNING

Group F24D 19/1063 is impacted by reclassification into groups F24H 15/00 - F24H 15/493.

All groups listed in this Warning should be considered in order to perform a complete search.

19/1066 • • • {for the combination of central heating and domestic hot water}

WARNING

Group <u>F24D 19/1066</u> is impacted by reclassification into groups <u>F24H 15/00</u> - F24H 15/493.

All groups listed in this Warning should be considered in order to perform a complete search.

19/1069 {regulation in function of the temperature of the domestic hot water}

WARNING

Group <u>F24D 19/1069</u> is impacted by reclassification into groups F24H 15/00 - F24H 15/493.

All groups listed in this Warning should be considered in order to perform a complete search.

19/1072 {the system uses a heat pump}

WARNING

Group <u>F24D 19/1072</u> is impacted by reclassification into groups F24H 15/00 - F24H 15/493.

All groups listed in this Warning should be considered in order to perform a complete search.

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19/1075 {the system uses solar energy}

WARNING

Group <u>F24D 19/1075</u> is impacted by reclassification into groups <u>F24H 15/00</u> - <u>F24H 15/493</u>.

All groups listed in this Warning should be considered in order to perform a complete search.

19/1078 { the system uses a heat pump and solar energy}

WARNING

Group <u>F24D 19/1078</u> is impacted by reclassification into groups <u>F24H 15/00</u> - <u>F24H 15/493</u>.

All groups listed in this Warning should be considered in order to perform a complete search.

19/1081 . . . (counting of energy consumption)

WARNING

Group <u>F24D 19/1081</u> is impacted by reclassification into groups F24H 15/00 - F24H 15/493.

All groups listed in this Warning should be considered in order to perform a complete search.

19/1084 . . {for air heating systems}

WARNING

Group <u>F24D 19/1084</u> is impacted by reclassification into groups F24H 15/00 - F24H 15/493.

All groups listed in this Warning should be considered in order to perform a complete search.

19/1087 . . . {system using a heat pump}

WARNING

Group <u>F24D 19/1087</u> is impacted by reclassification into groups <u>F24H 15/00</u> - F24H 15/493.

All groups listed in this Warning should be considered in order to perform a complete search.

19/109 . . . {system using solar energy}

WARNING

Group <u>F24D 19/109</u> is impacted by reclassification into groups <u>F24H 15/00</u> - <u>F24H 15/493</u>.

All groups listed in this Warning should be considered in order to perform a complete search.

19/1093 . . . {system using a heat pump and solar energy}

WARNING

Group <u>F24D 19/1093</u> is impacted by reclassification into groups <u>F24H 15/00</u> - <u>F24H 15/493</u>.

All groups listed in this Warning should be considered in order to perform a complete search.

19/1096 . . {for electric heating systems}

WARNING

Group <u>F24D 19/1096</u> is impacted by reclassification into groups <u>F24H 15/00</u> - F24H 15/493.

All groups listed in this Warning should be considered in order to perform a complete search.

Indexing scheme associated with group F24D 18/00, relating to electric generators, thermal aspects and constructional aspects of small-scale combined heat and power [CHP] systems

2101/00	Electric generators of small-scale CHP systems
2101/10	. Gas turbines; Steam engines or steam turbines;
	Water turbines, e.g. located in water pipes
2101/20	. Wind turbines
2101/30	• Fuel cells
2101/40	Photovoltaic [PV] modules
2101/50	. Thermophotovoltaic [TPV] modules
2101/60	• Thermoelectric generators, e.g. Peltier or Seebeck elements
2101/70	• Electric generators driven by internal combustion engines [ICE]
2101/80	• Electric generators driven by external combustion
	engines, e.g. Stirling engines
2103/00	Thermal aspects of small-scale CHP systems
2103/10	. Small-scale CHP systems characterised by their heat
	recovery units
2103/13	characterised by their heat exchangers
2103/17	Storage tanks
2103/20	Additional heat sources for supporting thermal peak
	loads
2105/00	Constructional aspects of small-scale CHP systems
2105/10	Sound insulation

2200/00	Heat sources or energy sources
2200/02	Photovoltaic energy
2200/04	Gas or oil fired boiler
2200/043	More than one gas or oil fired boiler
2200/046	Condensing boilers
2200/06	Solid fuel fired boiler
2200/062	Coal fired boilers
2200/065	Wood fired boilers
2200/067	Pellet fired boilers
2200/07	Solid fuel burners
2200/08	Electric heater
2200/10	Fire place
2200/11	Geothermal energy
2200/115	. Involving mains water supply

2200/12	• Heat pump
2200/123	Compression type heat pumps
2200/126	Absorption type heat pumps
2200/13	. Heat from a district heating network
2200/14	Solar energy
2200/15	• Wind energy
2200/16	• Waste heat
2200/18	Flue gas recuperation
2200/19	Fuel cells
2200/20	Sewage water
2200/22	Ventilation air
2200/24	Refrigeration
2200/26	Internal combustion engine
2200/28	Biological processes
2200/29	. Electrical devices, e.g. computers, servers
2200/30	Friction
2200/31	Air conditioning systems
2200/32	. involving multiple heat sources in combination or as
	alternative heat sources

Central Heating Systems

2220/00 Components of central heating installations		
2220/00	excluding heat sources	
2220/003	. Generic central heating systems	
2220/006	 Parts of a building integrally forming part of heating 	
2220/000	systems, e.g. a wall as a heat storing mass	
2220/02	Fluid distribution means	
2220/0207	. Pumps	
2220/0214	1	
2220/0221	Mixing cylinders	
2220/0228	Branched distribution conduits	
2220/0235	. Three-way-valves	
2220/0242	Multiple way valves	
2220/025	• • Check valves	
2220/0257	. Thermostatic valves	
2220/0264	Hydraulic balancing valves	
2220/0271	Valves	
2220/0278	Expansion vessels	
2220/0285	Pipe sections	
2220/0292	Fluid distribution networks	
2220/04	• Sensors	
2220/042	Temperature sensors	
2220/044	Flow sensors	
2220/046	Pressure sensors	
2220/048	. Level sensors, e.g. water level sensors	
2220/06	Heat exchangers	
2220/07	• Heat pipes	
2220/08	Storage tanks	
2220/10	• Heat storage materials, e.g. phase change materials	
	or static water enclosed in a space	
2220/20	. Heat consumers	
2220/2009	Radiators	
2220/2018	Column radiators having vertically extending	
2220/2027	tubes	
2220/2027	Convectors (radiators wherein heat transfer mainly takes place by convection)	
2220/2036	Electric radiators	
2220/2036	Radiators having horizontally extending tubes	
2220/2043	Radiators naving norizontarily extending tubes Panel radiators with or without extended	
2220/2034	convection surfaces	
2220/2063	Central heating radiators having heat storage	
2220,2003	material incorporated	

2220/2072 2220/2081 2220/209	 Radiators being skirting boards between floor and wall or ledges between wall and ceiling Floor or wall heating panels Sanitary water taps
2240/00	Characterizing positions, e.g. of sensors, inlets,
	outlets
2240/10	• Placed within or inside of
2240/12	Placed outside of
2240/20	Placed at top position
2240/22	 Placed at bottom position
2240/24	Placed at centre position
2240/243	Vertically centred
2240/246	Horizontally centred
2240/26	• Vertically distributed at fixed positions, e.g.
	multiple sensors distributed over the height of a tank, or a vertical inlet distribution pipe having a plurality of orifices
2240/28	Horizontally distributed at fixed positions
2240/30	• At vertical variable positions, e.g. a movable inlet pipe within a tank
2240/32	At horizontal variable positions