

**CPC****COOPERATIVE PATENT CLASSIFICATION****F27B****FURNACES, KILNS, OVENS, OR RETORTS IN GENERAL; OPEN SINTERING OR LIKE APPARATUS****NOTE**

Attention is drawn to the references and notes following the title of class [F27](#) and the note (par. III) following the Contents of Section H.

**WARNING**

The following IPC groups are not used in the CPC system. Subject matter covered by these groups is classified in the following CPC groups:

<a href="#">F27B 1/09</a>	covered by	<a href="#">F27B 1/08</a>
<a href="#">F27B 5/05</a>	" "	<a href="#">F27B 5/04</a>
<a href="#">F27B 14/16</a> , <a href="#">F27B 14/18</a>	" "	<a href="#">F27B 14/0806</a>
<a href="#">F27B 21/08</a> to <a href="#">F27B 21/14</a>	" "	<a href="#">F27D</a>

**F27B 1/00**

**Shaft or like vertical or substantially vertical furnaces** (for preheating, burning, calcining or cooling lime, magnesia or dolomite [C04B 2/12](#))

[F27B 1/005](#)

. {wherein no smelting of the charge occurs, e.g. calcining or sintering furnaces}

[F27B 1/02](#)

. with two or more shafts or chambers, e.g. multi-storey

[F27B 1/025](#)

.. {with fore-hearth}

[F27B 1/04](#)

.. Combinations or arrangements of shafts

[F27B 1/06](#)

. of other than up-draught type

[F27B 1/08](#)

. heated otherwise than by solid fuel mixed with charge

[F27B 1/10](#)

. Details, accessories, or equipment peculiar to furnaces of these types

[F27B 1/12](#)

.. Shells or casings; Supports therefor

[F27B 1/14](#)

... Arrangements of linings (linings in general [F27D 1/00](#))

[F27B 1/16](#)

.. Arrangements of tuyeres

[F27B 1/18](#)

.. Arrangements of dust collectors

[F27B 1/20](#)

.. Arrangements of devices for charging

[F27B 1/21](#)

.. Arrangements of devices for discharging

[F27B 1/22](#)

.. Arrangements of heat-exchange apparatus (heat-exchangers in general [F28C](#), [F28D](#))

[F27B 1/24](#)

.. Cooling arrangements

[F27B 1/26](#)

.. Arrangements of controlling devices

[F27B 1/28](#)

.. Arrangements of monitoring devices, of indicators, of alarm devices

**F27B 3/00**

**Hearth-type furnaces, e.g. of reverberatory type** ([F27B 9/00](#), [F27B 11/00](#), [F27B 13/00](#), [F27B 14/00](#), [F27B 15/00](#), [F27B 21/00](#) take precedence); **Tank furnaces**

[F27B 3/002](#)

. {Siemens-Martin type furnaces}

[F27B 3/005](#)

.. {Port construction}

- F27B 3/007 . . . {Removable burner head}
- F27B 3/02 . of single-chamber fixed-hearth type
- F27B 3/04 . of multiple-hearth type; of multiple-chamber type; Combinations of hearth-type furnaces
- F27B 3/045 .. {Multiple chambers, e.g. one of which is used for charging}
- F27B 3/06 . with movable working chambers or hearths, e.g. tiltable, {oscillating or describing a composed movement}
- F27B 3/065 .. {tiltable}
- F27B 3/08 . heated electrically, with or without any other source of heat
- F27B 3/085 .. {Arc furnaces}
- F27B 3/10 . Details, accessories, or equipment peculiar to hearth-type furnaces
- F27B 3/105 .. {Slag chamber}
- F27B 3/12 .. Working chambers or casings; Supports therefor
- F27B 2003/125 . . . {Hearths}
- F27B 3/14 . . . Arrangements of linings
- F27B 3/16 . . . Walls; Roofs
- F27B 2003/165 . . . . {Roofs}
- F27B 3/18 .. Arrangements of devices for charging
- F27B 3/183 . . . {Charging of arc furnaces vertically through the roof, e.g. in three points}
- F27B 3/186 . . . . {Charging in a vertical chamber adjacent to the melting chamber}
- F27B 3/19 .. Arrangements of devices for discharging
- F27B 3/20 .. Arrangements of heating devices
- F27B 3/205 . . . {Burners}
- F27B 3/22 .. Arrangements of air or gas supply devices
- F27B 3/225 . . . {Oxygen blowing}
- F27B 3/24 .. Cooling arrangements
- F27B 3/26 .. Arrangements of heat-exchange apparatus
- F27B 3/263 . . . {Regenerators}
- F27B 3/266 . . . . {Exhaust gases reversing flow devices}
- F27B 3/28 .. Arrangement of controlling, monitoring, alarm or the like devices
- F27B 5/00** **Muffle furnaces; Retort furnaces; Other furnaces in which the charge is held completely isolated (F27B 9/00 takes precedence)**
- F27B 5/02 . of multiple-chamber type
- F27B 5/04 . adapted for treating the charge in vacuum or special atmosphere
- F27B 5/06 . Details, accessories, or equipment peculiar to furnaces of these types
- F27B 2005/062 .. {Cooling elements}
- F27B 2005/064 . . . {disposed in the furnace, around the chamber, e.g. coils}
- F27B 2005/066 . . . {disposed around the fan}
- F27B 2005/068 . . . {for external cooling}
- F27B 5/08 .. Arrangements of linings

F27B 5/10	..	Muffles
F27B 5/12	..	Arrangement of devices for charging
F27B 5/13	..	Arrangement of devices for discharging
F27B 5/14	..	Arrangements of heating devices
F27B 2005/143	...	{Heating rods disposed in the chamber}
F27B 2005/146	....	{the heating rods being in the tubes which conduct the heating gases}
F27B 5/16	..	Arrangements of air or gas supply devices
F27B 2005/161	...	{Gas inflow or outflow}
F27B 2005/162	....	{through closable or non-closable openings of the chamber walls}
F27B 2005/163	.....	{Controlled openings, e.g. orientable}
F27B 2005/164	....	{Air supply through a set of tubes with openings}
F27B 2005/165	.....	{Controlled tubes, e.g. orientable or with closable openings}
F27B 2005/166	...	{Means to circulate the atmosphere}
F27B 2005/167	....	{the atmosphere being recirculated through the treatment chamber by a turbine}
F27B 2005/168	.....	{by more than one turbine}
F27B 2005/169	....	{the atmosphere being continuously renewed by exterior means}
F27B 5/18	..	Arrangement of controlling, monitoring, alarm or like devices
<b>F27B 7/00</b>		<b>Rotary-drum furnaces, i.e. horizontal or slightly inclined</b>
F27B 2007/005	.	{for the treatment of slurries or wet materials}
F27B 7/02	.	of multiple-chamber or multiple-drum type
F27B 2007/022	..	{the drum having a non-uniform section along its length}
F27B 2007/025	..	{with different chambers, e.g. treatment zones}
F27B 2007/027	..	{with more than one drum}
F27B 7/04	..	with longitudinal divisions
F27B 2007/041	...	{Longitudinal tubes}
F27B 2007/043	...	{the partition being a cylinder, coaxial to the rotary drum, defining two chambers}
F27B 2007/045	....	{the charge going in one direction in one chamber, then after a turn coming back in the other direction in the other chamber}
F27B 2007/046	...	{Radial partitions}
F27B 2007/048	....	{defining an helical chamber}
F27B 7/06	.	adapted for treating the charge in vacuum or special atmosphere
F27B 7/08	.	externally heated
F27B 7/10	.	internally heated, e.g. by means of passages in the wall
F27B 7/12	.	tiltable
F27B 7/14	.	with means for agitating or moving the charge
F27B 7/16	..	the means being fixed relatively to the drum, {e.g. composite means }(F27B 7/04 takes precedence)
F27B 7/161	...	{the means comprising projections jutting out from the wall}

F27B 7/162	....	{the projections consisting of separate lifting elements, e.g. lifting shovels}
F27B 2007/163	.....	{using only a ring of lifting elements to lift the charge}
F27B 2007/165	....	{forming a helical lifting projection}
F27B 7/166	...	{the means comprising chains}
F27B 7/167	...	{the means comprising partitions}
F27B 2007/168	....	{Annular partition}
F27B 7/18	..	the means being movable within the drum
F27B 7/20	.	Details, accessories, or equipment peculiar to rotary-drum furnaces
F27B 2007/2008	..	{Devices for reintroducing dust in the drum}
F27B 7/2016	..	{Arrangements of preheating devices for the charge}
F27B 7/2025	...	{consisting of a single string of cyclones}
F27B 7/2033	....	{with means for precalcining the raw material}
F27B 7/2041	...	{consisting of at least two strings of cyclones with two different admissions of raw material}
F27B 7/205	....	{with precalcining means on the string supplied with exhaust gases from the cooler}
F27B 7/2058	....	{with precalcining means on each string}
F27B 7/2066	...	{comprising a band transporter}
F27B 7/2075	..	{Removing incrustations}
F27B 7/2083	..	{Arrangements for the melting of metals or the treatment of molten metals}
F27B 2007/2091	..	{Means for eliminating compounds from gases by condensation, e.g. alkali metals}
F27B 7/22	..	Rotary drums; Supports therefor
F27B 7/2206	...	{Bearing rings}
F27B 2007/2213	....	{mounted floatingly on the drum}
F27B 2007/222	.....	{the mounting comprising radially resilient elements, e.g. springs}
F27B 2007/2226	.....	{the mounting comprising elements to maintain the ring between series of abutments}
F27B 2007/2233	....	{the ring being fixed to the drum, e.g. welded}
F27B 7/224	...	{Discharge ends}
F27B 2007/2246	...	{Support rollers}
F27B 2007/2253	....	{mounted movable, e.g. resiliently on the ground}
F27B 2007/226	.....	{constituted of series of two rollers mounted on tiltable support along the drum}
F27B 2007/2266	.....	{the mounting allowing a movement of the rollers support in a horizontal plane}
F27B 2007/2273	....	{with arrangements, e.g. rollers, to maintain the drum against longitudinal movement}
F27B 2007/228	....	{comprising rollable bodies}
F27B 2007/2286	....	{supporting the drum directly, without the use of a bearing ring}
F27B 2007/2293	...	{the furnace being suspended}
F27B 7/24	...	Seals between rotary and stationary parts
F27B 7/26	..	Drives

F27B 2007/261	...	{working with a ring embracing the drum}
F27B 2007/262	....	{A gear ring combined with a dented wheel drive}
F27B 2007/263	....	{A gear ring combined with a ram drive}
F27B 2007/265	....	{the ring being mounted floatingly}
F27B 2007/266	....	{the ring being a bearing ring}
F27B 2007/267	....	{A gear ring combined with a chain drive}
F27B 2007/268	...	{Details of the motor or the pinions}
F27B 7/28	..	Arrangements of linings
F27B 7/30	..	Arrangements of partitions
F27B 7/32	..	Arrangement of devices for charging
F27B 7/3205	...	{Charging}
F27B 2007/3211	....	{at the open end of the drum}
F27B 2007/3217	.....	{axially, optionally at some distance in the kiln}
F27B 2007/3223	.....	{the charging device being movable axially, e.g. reciprocable}
F27B 2007/3229	.....	{via a centrifugal device}
F27B 2007/3235	.....	{the introducing device comprising a spray or a lance}
F27B 2007/3241	.....	{in the flame of the burner}
F27B 2007/3247	....	{through a lateral opening in the drum}
F27B 2007/3252	.....	{with lifting scoops attached to the drum}
F27B 2007/3258	....	{at the open end of the drum}
F27B 2007/3264	.....	{using special discharge means located around the discharge end, e.g. lifting scoops or a transversal annular partition}
F27B 2007/327	....	{centrifugally through lateral openings in the drum}
F27B 2007/3276	....	{with a collector means extending longitudinally into the drum}
F27B 2007/3282	...	{Details}
F27B 2007/3288	....	{Sieves or grading means}
F27B 2007/3294	....	{Means to fluidise the charge in the air}
F27B 7/33	..	Arrangement of devices for discharging
F27B 7/34	..	Arrangements of heating devices
F27B 7/36	..	Arrangements of air or gas supply devices
F27B 7/362	...	{Introducing gas into the drum axially or through the wall}
F27B 2007/365	....	{longitudinally}
F27B 2007/367	....	{transversally through the wall of the drum}
F27B 7/38	..	Arrangements of cooling devices
F27B 7/383	...	{Cooling devices for the charge}
F27B 7/386	....	{Rotary-drum cooler}
F27B 7/40	...	Planetary coolers
F27B 7/42	..	Arrangement of controlling, monitoring, alarm or like devices

<b>F27B 9/00</b>	<b>Furnaces through which the charge is moved mechanically, e.g. of tunnel type (<a href="#">F27B 7/14</a> takes precedence); Similar furnaces in which the charge moves by gravity</b>
F27B 9/02	. of multiple-track type; of multiple-chamber type; Combinations of furnaces
F27B 9/021	.. {having two or more parallel tracks}
F27B 9/022	... {With two tracks moving in opposite directions}
F27B 9/023	.... {with a U turn at one end}
F27B 9/024	..... {with superimposed tracks}
F27B 9/025	... {having two or more superimposed tracks ( <a href="#">F27B 9/024</a> takes precedence)}
F27B 2009/026	.. {Two or more conveyers, e.g. mounted successively}
F27B 2009/027	... {working in parallel}
F27B 9/028	.. {Multi-chamber type furnaces, ( <a href="#">F27B 9/029</a> takes precedence)}
F27B 9/029	.. {Multicellular type furnaces constructed with add-on modules}
F27B 9/04	. adapted for treating the charge in vacuum or special atmosphere
F27B 9/042	.. {Vacuum furnaces}
F27B 9/045	.. {Furnaces with controlled atmosphere}
F27B 9/047	... {the atmosphere consisting of protective gases}
F27B 9/06	. heated without contact between combustion gases and charge; electrically heated
F27B 9/061	.. {with at least two longitudinal chambers carrying combustion gases, i.e of the Dressler type}
F27B 9/062	.. {electrically heated}
F27B 9/063	... {Resistor heating, e.g. with resistors also emitting IR rays}
F27B 9/065	.... {the resistance being transported by the conveyer}
F27B 9/066	... {heated by lamps}
F27B 9/067	... {heated by induction}
F27B 9/068	.. {heated by radiant tubes, the tube being heated by a hot medium, e.g. hot gases}
F27B 9/08	.. heated through chamber walls
F27B 9/082	... {Muffle furnaces}
F27B 9/084	.... {the muffle being fixed and in a single piece}
F27B 9/086	.... {with two or more fixed muffles}
F27B 9/088	.... {Series of separate muffles conveyed through the furnace}
F27B 9/10	.. heated by hot air or gas
F27B 9/12	. with special arrangements for preheating or cooling the charge
F27B 2009/122	.. {Preheating}
F27B 2009/124	.. {Cooling}
F27B 2009/126	... {involving the circulation of cooling gases, e.g. air}
F27B 2009/128	.... {the gases being further utilised as oxidants in the burners}
F27B 9/14	. characterised by the path of the charge during treatment; characterised by the means by which the charge is moved during treatment ( <a href="#">F27B 9/28</a> takes precedence; travelling or movable supports or containers for the charge <a href="#">F27D 3/12</a> )
F27B 9/142	.. {the charge moving along a vertical axis}

F27B 9/145	..	{the charge moving along a serpentine path}
F27B 9/147	..	{the charge moving on an inclined floor}
F27B 9/16	..	the charge moving in a circular or arcuate path
F27B 9/18	...	under the action of scrapers or pushers
F27B 9/185	....	{multiple hearth type furnaces}
F27B 9/20	..	the charge moving in a substantially straight path {tunnel furnace}
F27B 9/201	...	{walking beam furnace}
F27B 9/202	....	{Conveyer mechanisms therefor}
F27B 9/203	.....	{having ramps (F27B 9/206 takes precedence)}
F27B 9/205	.....	{having excentrics or lever arms (F27B 9/206 takes precedence)}
F27B 9/206	.....	{consisting of a single central beam}
F27B 9/207	.....	{consisting of two or more conveyers}
F27B 9/208	....	{the workpieces being rotated during their advance}
F27B 9/22	...	{on rails, e.g.} under the action of scrapers or pushers (F27B 9/26 takes precedence)
F27B 9/222	....	{the path comprising a section specially adapted for effecting equalisation of the temperature of the charge}
F27B 9/225	....	{the charge being subjected to an additional manipulation along the path}
F27B 9/227	....	{with rotation of the charge (F27B 9/147 takes precedence)}
F27B 9/24	...	being carried by a conveyer {(transport by conveyers in general B65G)}
F27B 9/2407	....	{the conveyer being constituted by rollers (roller hearth furnace)}
F27B 9/2415	.....	{the charge rotating about an axis transversal to the axis of advancement of the charge}
F27B 9/2423	.....	{the charge rotating about an axis parallel to the axis of advancement of the charge}
F27B 9/243	....	{Endless-strand conveyer}
F27B 2009/2438	.....	{with means to transfer the heat from the outcoming band to the incoming band}
F27B 2009/2446	.....	{with means to control the tension of the band}
F27B 9/2453	....	{Vibrating conveyer (shaker hearth furnace)}
F27B 9/2461	....	{the charge being suspended from the conveyer}
F27B 9/2469	....	{the conveyer being constituted by rollable bodies}
F27B 9/2476	....	{the conveyer being constituted by air cushion}
F27B 2009/2484	....	{the conveyer being a helical device}
F27B 2009/2492	....	{the conveyer being constituted by series of little rams or ratchets, moving the charge along}
F27B 9/26	...	on or in trucks, sleds, or containers
F27B 9/262	....	{on or in trucks}
F27B 2009/264	.....	{the truck carrying a partition}
F27B 2009/266	.....	{the truck having conducts for guiding the oven atmosphere}
F27B 2009/268	.....	{through the structure of the car and through the charge}
F27B 9/28	.	for treating continuous lengths of work



F27B 9/30	. Details, accessories, or equipment peculiar to furnaces of these types
F27B 9/3005	.. {arrangements for circulating gases}
F27B 9/3011	... {arrangements for circulating gases transversally}
F27B 2009/3016	.... {with arrangements to circulate gases through the charge}
F27B 2009/3022	.... {with arrangements to maintain oxidising reducing or neutral zones}
F27B 2009/3027	... {Use of registers, partitions}
F27B 2009/3033	... {Fumes circulating in the same direction as the charge}
F27B 2009/3038	... {Fumes or gases alternatively changing their longitudinal direction}
F27B 9/3044	.. {Furnace regenerators}
F27B 2009/305	.. {Particular conformation of the furnace}
F27B 2009/3055	... {Non-uniform section through the length of the furnace}
F27B 2009/3061	... {Furnaces with longitudinal grooves}
F27B 2009/3066	.. {Cooling the under-structure of the kiln, e.g. under the cars}
F27B 2009/3072	.. {Balancing the pressure between the upper part and the lower part of the kiln, above and under the track}
F27B 9/3077	.. {Arrangements for treating electronic components, e.g. semiconductors}
F27B 2009/3083	.. {Arrangements to handle skid marks}
F27B 2009/3088	.. {Drying arrangements}
F27B 2009/3094	.. {Means to store a part of the charge in the furnace}
F27B 9/32	.. Casings
F27B 9/34	... Arrangements of linings
F27B 9/36	.. Arrangements of heating devices
F27B 2009/3607	... {Heaters located above the track of the charge}
F27B 2009/3615	.... {Burner in the ceiling directed vertically downwards}
F27B 2009/3623	... {Heaters located under the track}
F27B 2009/363	.... {Burners in the hearth directed towards the ceiling}
F27B 2009/3638	... {Heaters located above and under the track}
F27B 2009/3646	... {Heating the ceiling or the walls for a reverberatory effect}
F27B 2009/3653	... {Preheated fuel}
F27B 2009/3661	.... {preheated with the exhaust gases}
F27B 2009/3669	.... {preheated with the gases of the cooling zone}
F27B 2009/3676	.... {preheated with the gases of the preheating zone}
F27B 2009/3684	... {Combustion within a combustion chamber with outlets in the kiln chamber}
F27B 2009/3692	... {The charge containing combustible materials}
F27B 9/38	.. Arrangements of devices for charging
F27B 2009/382	... {Charging}
F27B 2009/384	... {Discharging}
F27B 2009/386	... {Lateral intake or outtake}
F27B 2009/388	.... {Centrally in the lateral wall}
F27B 9/39	.. Arrangements of devices for discharging



F27B 9/40	.. Arrangements of controlling or monitoring devices
<b>F27B 11/00</b>	<b>Bell-type furnaces (for treating metal strips or wire <a href="#">C21D 9/663</a>)</b>
<b>F27B 13/00</b>	<b>Furnaces with both stationary charge and progression of heating, e.g. of ring type, of type in which segmental kiln moves over stationary charge</b>
F27B 13/02	. of multiple-chamber type with permanent partitions; Combinations of furnaces
F27B 13/04	. of single-chamber type with temporary partitions
F27B 13/06	. Details, accessories, or equipment peculiar to furnaces of this type
F27B 13/08	.. Casings
F27B 13/10	... Arrangements of linings
F27B 13/12	.. Arrangements of heating devices
F27B 13/14	.. Arrangement of controlling, monitoring, alarm or like devices
<b>F27B 14/00</b>	<b>Crucible or pot furnace</b>
F27B 2014/002	. {Smelting process, e.g. sequences to melt a specific material}
F27B 2014/004	.. {Process involving a smelting step, e.g. vaporisation}
F27B 2014/006	.. {involving a salt bath or help metal bath}
F27B 2014/008	. {Continuous casting}
F27B 14/02	. with tilting or rocking arrangements ( <a href="#">F27B 14/04 takes precedence</a> )
F27B 14/04	. adapted for treating the charge in vacuum or special atmosphere
F27B 2014/045	.. {Vacuum}
F27B 14/06	. heated electrically, e.g. induction crucible furnaces with or without any other source of heat ( <a href="#">F27B 14/04 takes precedence</a> )
F27B 14/061	.. {Induction furnaces}
F27B 14/063	... {Skull melting type}
F27B 14/065	... {Channel type}
F27B 2014/066	... {Construction of the induction furnace}
F27B 2014/068	.. {with the use of an electrode producing a current in the melt}
F27B 14/08	. Details peculiar to crucible or pot furnaces
F27B 14/0806	.. {Charging or discharging devices}
F27B 2014/0812	... {Continuously charging}
F27B 2014/0818	... {Discharging}
F27B 2014/0825	.. {Crucible or pot support}
F27B 2014/0831	... {Support or means for the transport of crucibles}
F27B 2014/0837	.. {Cooling arrangements}
F27B 2014/0843	.. {Lining or casing}
F27B 2014/085	.. {Preheating of the charge}
F27B 2014/0856	... {Preheating of the crucible}
F27B 2014/0862	.. {Flux guides}
F27B 2014/0868	.. {Magnetic shields}
F27B 2014/0875	.. {Two zones or chambers, e.g. one used for charging}

F27B 2014/0881	..	{Two or more crucibles}
F27B 2014/0887	..	{Movement of the melt}
F27B 2014/0893	..	{Heat-conductive material disposed on the surface of the melt}
F27B 14/10	..	Crucibles
F27B 2014/102	...	{Form of the crucibles}
F27B 2014/104	...	{Crucible linings}
F27B 2014/106	...	{Ladles}
F27B 2014/108	...	{Cold crucibles (transparent to electromagnetic radiations)}
F27B 14/12	...	Covers therefor
F27B 14/14	..	Arrangements of heating devices
F27B 14/143	...	{Heating of the crucible by convection of combustion gases}
F27B 2014/146	...	{Recuperation of lost heat, e.g. regenerators}
F27B 14/20	..	Arrangement of controlling, monitoring, alarm or like devices
<b>F27B 15/00</b>		<b>Fluidised-bed furnaces; Other furnaces using or treating finely-divided materials in dispersion</b> {(apparatus in general for carrying out chemical or physical processes in a fluidised bed reactor <a href="#">B01J 8/24</a> to <a href="#">B01J 8/44</a> )}
F27B 15/003	.	{Cyclones or chain of cyclones}
F27B 15/006	.	{Equipment for treating dispersed material falling under gravity with ascending gases}
F27B 15/02	.	Details, accessories, or equipment peculiar to furnaces of these types
F27B 15/04	..	Casings; Supports therefor
F27B 15/06	...	Arrangements of linings
F27B 15/08	..	Arrangements of devices for charging
F27B 15/09	..	Arrangements of devices for discharging
F27B 15/10	..	Arrangements of air or gas supply devices
F27B 15/12	..	Arrangements of dust collectors
F27B 15/14	..	Arrangements of heating devices
F27B 15/16	..	Arrangements of cooling devices
F27B 15/18	..	Arrangements of controlling devices
F27B 15/20	..	Arrangements of monitoring devices, of indicators, of alarm devices
<b>F27B 17/00</b>		<b>Furnaces of a kind not covered by any preceding group</b> (structural combinations of furnaces <a href="#">F27B 19/02</a> )
F27B 17/0008	.	{Open field furnace for burning bricks}
F27B 17/0016	.	{Chamber type furnaces}
F27B 17/0025	..	{Especially adapted for treating semiconductor wafers}
F27B 17/0033	..	{the floor of the furnaces consisting of the support carrying the charge, e.g. car type furnaces}
F27B 17/0041	..	{specially adapted for burning bricks or pottery ( <a href="#">F27B 17/0033</a> takes precedence)}
F27B 17/005	...	{with cylindrical chambers}
F27B 17/0058	....	{with superposed cylindrical chambers}
F27B 17/0066	...	{arrangement of the charge, e.g. bricks}

F27B 17/0075	. . . {Heating devices therefor}
F27B 17/0083	. . {with means for circulating the atmosphere}
F27B 2017/0091	. . {Series of chambers, e.g. associated in their use}
F27B 17/02	. specially designed for laboratory use
F27B 17/025	. . {for dental workpieces}
<b>F27B 19/00</b>	<b>Combinations of furnaces of kinds not covered by a single preceding main group</b>
F27B 19/02	. combined in one structure
F27B 19/04	. arranged for associated working
<b>F27B 21/00</b>	<b>Open or uncovered sintering apparatus; Other heat-treatment apparatus of like construction</b>
F27B 21/02	. Sintering grates or tables
F27B 21/04	. Sintering pots or sintering pans
F27B 21/06	. Endless-strand sintering machines