

Symbol	Typ	Titel
F	Sektion	SECTION F — MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING
F27	Klasse	FURNACES; KILNS; OVENS; RETORTS (specially adapted for a purpose covered by a single other class and specifically mentioned in that class, <u>see</u> the class in question, e.g. bakery ovens A21B, glass melting furnaces C03B, coke or gas-making apparatus C10B, C10J, apparatus for cracking hydrocarbons C10G, blast furnaces C21B, converters for making steel C21C, furnaces for heat treatment of metal C21D; furnaces for electroslag or arc remelting of metals C22B 9/00; enamelling ovens C23D; combustion apparatus F23; electric heating H05B) [4]
F27B	Unterklasse	FURNACES, KILNS, OVENS, OR RETORTS IN GENERAL; OPEN SINTERING OR LIKE APPARATUS
F27B 1/00	Hauptgruppe	Shaft or like vertical or substantially vertical furnaces (for preheating, burning, calcining or cooling lime, magnesia or dolomite C04B 2/12)
F27B 1/02	1-Punkt Untergruppe	. with two or more shafts or chambers, e.g. multi-storey
F27B 1/04	2-Punkt Untergruppe	. . Combinations or arrangements of shafts
F27B 1/06	1-Punkt Untergruppe	. of other than up-draught type
F27B 1/08	1-Punkt Untergruppe	. heated otherwise than by solid fuel mixed with charge
F27B 1/09	2-Punkt Untergruppe	. . heated electrically [4]
F27B 1/10	1-Punkt Untergruppe	. Details, accessories, or equipment peculiar to furnaces of these types
F27B 1/12	2-Punkt Untergruppe	. . Shells or casings; Supports therefor
F27B 1/14	3-Punkt Untergruppe	. . . Arrangements of linings (linings in general F27D 1/00)
F27B 1/16	2-Punkt Untergruppe	. . Arrangements of tuyères
F27B 1/18	2-Punkt Untergruppe	. . Arrangements of dust collectors
F27B 1/20	2-Punkt Untergruppe	. . Arrangement of devices for charging [4]
F27B 1/21	2-Punkt Untergruppe	. . Arrangement of devices for discharging [4]
F27B 1/22	2-Punkt Untergruppe	. . Arrangements of heat-exchange apparatus (heat-exchangers in general F28C, F28D)
F27B 1/24	2-Punkt Untergruppe	. . Cooling arrangements
F27B 1/26	2-Punkt Untergruppe	. . Arrangements of controlling devices
F27B 1/28	2-Punkt Untergruppe	. . Arrangements of monitoring devices, of indicators, of alarm devices
F27B 3/00	Hauptgruppe	Hearth-type furnaces, e.g. of reverberatory type (F27B 9/00-F27B 15/00, F27B 21/00 take precedence); Electric arc furnaces [4]
F27B 3/02	1-Punkt Untergruppe	. of single-chamber fixed-hearth type
F27B 3/04	1-Punkt Untergruppe	. of multiple-hearth type; of multiple-chamber type; Combinations of hearth-type furnaces
F27B 3/06	1-Punkt Untergruppe	. with movable working chambers or hearths, e.g. tiltable
F27B 3/08	1-Punkt Untergruppe	. heated electrically, e.g. electric arc furnaces, with or without any other source of heat

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F27B 3/10	1-Punkt Untergruppe	. Details, accessories, or equipment, e.g. dust-collectors, peculiar to hearth-type furnaces
F27B 3/12	2-Punkt Untergruppe	. . Working chambers or casings; Supports therefor
F27B 3/14	3-Punkt Untergruppe	. . . Arrangements of linings
F27B 3/16	3-Punkt Untergruppe	. . . Walls; Roofs
F27B 3/18	2-Punkt Untergruppe	. . Arrangement of devices for charging [4]
F27B 3/19	2-Punkt Untergruppe	. . Arrangement of devices for discharging [4]
F27B 3/20	2-Punkt Untergruppe	. . Arrangements of heating devices
F27B 3/22	2-Punkt Untergruppe	. . Arrangements of air or gas supply devices
F27B 3/24	2-Punkt Untergruppe	. . Cooling arrangements
F27B 3/26	2-Punkt Untergruppe	. . Arrangements of heat-exchange apparatus
F27B 3/28	2-Punkt Untergruppe	. . Arrangement of controlling, monitoring, alarm or like devices [4]
F27B 5/00	Hauptgruppe	Muffle furnaces; Retort furnaces; Other furnaces in which the charge is held completely isolated (F27B 9/00 takes precedence)
F27B 5/02	1-Punkt Untergruppe	. of multiple-chamber type
F27B 5/04	1-Punkt Untergruppe	. adapted for treating the charge in vacuum or special atmosphere
F27B 5/05	2-Punkt Untergruppe	. . in vacuum [5]
F27B 5/06	1-Punkt Untergruppe	. Details, accessories, or equipment peculiar to furnaces of these types
F27B 5/08	2-Punkt Untergruppe	. . Arrangements of linings
F27B 5/10	2-Punkt Untergruppe	. . Muffles
F27B 5/12	2-Punkt Untergruppe	. . Arrangement of devices for charging [4]
F27B 5/13	2-Punkt Untergruppe	. . Arrangement of devices for discharging [4]
F27B 5/14	2-Punkt Untergruppe	. . Arrangements of heating devices
F27B 5/16	2-Punkt Untergruppe	. . Arrangements of air or gas supply devices
F27B 5/18	2-Punkt Untergruppe	. . Arrangement of controlling, monitoring, alarm or like devices [4]
F27B 7/00	Hauptgruppe	Rotary-drum furnaces, i.e. horizontal or slightly inclined
F27B 7/02	1-Punkt Untergruppe	. of multiple-chamber or multiple-drum type
F27B 7/04	2-Punkt Untergruppe	. . with longitudinal divisions
F27B 7/06	1-Punkt Untergruppe	. adapted for treating the charge in vacuum or special atmosphere
F27B 7/08	1-Punkt Untergruppe	. externally heated
F27B 7/10	1-Punkt Untergruppe	. internally heated, e.g. by means of passages in the wall
F27B 7/12	1-Punkt Untergruppe	. tiltable
F27B 7/14	1-Punkt Untergruppe	. with means for agitating or moving the charge
F27B 7/16	2-Punkt Untergruppe	. . the means being fixed relatively to the drum (F27B 7/04 takes precedence)

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F27B 7/18	2-Punkt Untergruppe	. . the means being movable within the drum
F27B 7/20	1-Punkt Untergruppe	. Details, accessories, or equipment peculiar to rotary-drum furnaces
F27B 7/22	2-Punkt Untergruppe	. . Rotary drums; Supports therefor
F27B 7/24	3-Punkt Untergruppe	. . . Seals between rotary and stationary parts
F27B 7/26	2-Punkt Untergruppe	. . Drives
F27B 7/28	2-Punkt Untergruppe	. . Arrangements of linings
F27B 7/30	2-Punkt Untergruppe	. . Arrangements of partitions
F27B 7/32	2-Punkt Untergruppe	. . Arrangement of devices for charging [4]
F27B 7/33	2-Punkt Untergruppe	. . Arrangement of devices for discharging [4]
F27B 7/34	2-Punkt Untergruppe	. . Arrangements of heating devices
F27B 7/36	2-Punkt Untergruppe	. . Arrangements of air or gas supply devices
F27B 7/38	2-Punkt Untergruppe	. . Arrangements of cooling devices
F27B 7/40	3-Punkt Untergruppe	. . . Planetary coolers [4]
F27B 7/42	2-Punkt Untergruppe	. . Arrangement of controlling, monitoring, alarm or like devices [4]
F27B 9/00	Hauptgruppe	Furnaces through which the charge is moved mechanically, e.g. of tunnel type (F27B 7/14 takes precedence); Similar furnaces in which the charge moves by gravity
F27B 9/02	1-Punkt Untergruppe	. of multiple-track type; of multiple-chamber type; Combinations of furnaces
F27B 9/04	1-Punkt Untergruppe	. adapted for treating the charge in vacuum or special atmosphere
F27B 9/06	1-Punkt Untergruppe	. heated without contact between combustion gases and charge; electrically heated
F27B 9/08	2-Punkt Untergruppe	. . heated through chamber walls
F27B 9/10	2-Punkt Untergruppe	. . heated by hot air or gas
F27B 9/12	1-Punkt Untergruppe	. with special arrangements for preheating or cooling the charge
F27B 9/14	1-Punkt Untergruppe	. characterised by the path of the charge during treatment; characterised by the means by which the charge is moved during treatment (F27B 9/28 takes precedence; travelling or movable supports or containers for the charge F27D 3/12)
F27B 9/16	2-Punkt Untergruppe	. . the charge moving in a circular or arcuate path
F27B 9/18	3-Punkt Untergruppe	. . . under the action of scrapers or pushers
F27B 9/20	2-Punkt Untergruppe	. . the charge moving in a substantially straight path
F27B 9/22	3-Punkt Untergruppe	. . . under the action of scrapers or pushers (F27B 9/26 takes precedence)
F27B 9/24	3-Punkt Untergruppe	. . . being carried by a conveyer
F27B 9/26	3-Punkt Untergruppe	. . . on or in trucks, sleds, or containers
F27B 9/28	1-Punkt Untergruppe	. for treating continuous lengths of work
F27B 9/30	1-Punkt Untergruppe	. Details, accessories, or equipment peculiar to furnaces of these types
F27B 9/32	2-Punkt Untergruppe	. . Casings

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F27B 9/34	3-Punkt Untergruppe	. . . Arrangements of linings
F27B 9/36	2-Punkt Untergruppe	. . Arrangements of heating devices
F27B 9/38	2-Punkt Untergruppe	. . Arrangement of devices for charging [4]
F27B 9/39	2-Punkt Untergruppe	. . Arrangement of devices for discharging [4]
F27B 9/40	2-Punkt Untergruppe	. . Arrangements of controlling or monitoring devices
F27B 11/00	Hauptgruppe	Bell-type furnaces (for treating metal strips or wire C21D 9/663)
F27B 13/00	Hauptgruppe	Furnaces with both stationary charge and progression of heating, e.g. of ring type, of type in which segmental kiln moves over stationary charge
F27B 13/02	1-Punkt Untergruppe	. of multiple-chamber type with permanent partitions; Combinations of furnaces
F27B 13/04	1-Punkt Untergruppe	. of single-chamber type with temporary partitions
F27B 13/06	1-Punkt Untergruppe	. Details, accessories, or equipment peculiar to furnaces of this type
F27B 13/08	2-Punkt Untergruppe	. . Casings
F27B 13/10	3-Punkt Untergruppe	. . . Arrangements of linings
F27B 13/12	2-Punkt Untergruppe	. . Arrangements of heating devices
F27B 13/14	2-Punkt Untergruppe	. . Arrangement of controlling, monitoring, alarm or like devices [4]
F27B 14/00	Hauptgruppe	Crucible or pot furnaces; Tank furnaces [4]
F27B 14/02	1-Punkt Untergruppe	. with tilting or rocking arrangements (F27B 14/04 takes precedence)
F27B 14/04	1-Punkt Untergruppe	. adapted for treating the charge in vacuum or special atmosphere
F27B 14/06	1-Punkt Untergruppe	. heated electrically, e.g. induction crucible furnaces, with or without any other source of heat (F27B 14/04 takes precedence)
F27B 14/08	1-Punkt Untergruppe	. Details peculiar to crucible, pot or tank furnaces [4]
F27B 14/10	2-Punkt Untergruppe	. . Crucibles
F27B 14/12	3-Punkt Untergruppe	. . . Covers therefor
F27B 14/14	2-Punkt Untergruppe	. . Arrangements of heating devices
F27B 14/16	2-Punkt Untergruppe	. . Arrangement of devices for charging [4]
F27B 14/18	2-Punkt Untergruppe	. . Arrangement of devices for discharging [4]
F27B 14/20	2-Punkt Untergruppe	. . Arrangement of controlling, monitoring, alarm or like devices [4]
F27B 15/00	Hauptgruppe	Fluidised-bed furnaces; Other furnaces using or treating finely-divided materials in dispersion (combustion apparatus in which combustion takes place in a fluidised bed of fuel or other particles F23C 10/00)
F27B 15/02	1-Punkt Untergruppe	. Details, accessories, or equipment peculiar to furnaces of these types
F27B 15/04	2-Punkt Untergruppe	. . Casings; Supports therefor
F27B 15/06	3-Punkt Untergruppe	. . . Arrangements of linings
F27B 15/08	2-Punkt Untergruppe	. . Arrangement of devices for charging [4]
F27B 15/09	2-Punkt Untergruppe	. . Arrangement of devices for discharging [4]

Symbol	Typ	Titel
F27B 15/10	2-Punkt Untergruppe	. . Arrangements of air or gas supply devices
F27B 15/12	2-Punkt Untergruppe	. . Arrangements of dust collectors
F27B 15/14	2-Punkt Untergruppe	. . Arrangements of heating devices
F27B 15/16	2-Punkt Untergruppe	. . Arrangements of cooling devices
F27B 15/18	2-Punkt Untergruppe	. . Arrangements of controlling devices
F27B 15/20	2-Punkt Untergruppe	. . Arrangements of monitoring devices, of indicators, of alarm devices
F27B 17/00	Hauptgruppe	Furnaces of a kind not covered by any of groups F27B 1/00-F27B 15/00 (structural combinations of furnaces F27B 19/02)
F27B 17/02	1-Punkt Untergruppe	. specially designed for laboratory use
F27B 19/00	Hauptgruppe	Combinations of furnaces of kinds not covered by any single one of main groups F27B 1/00-F27B 17/00
F27B 19/02	1-Punkt Untergruppe	. combined in one structure
F27B 19/04	1-Punkt Untergruppe	. arranged for associated working
F27B 21/00	Hauptgruppe	Open or uncovered sintering apparatus; Other heat-treatment apparatus of like construction
F27B 21/02	1-Punkt Untergruppe	. Sintering grates or tables
F27B 21/04	1-Punkt Untergruppe	. Sintering pots or sintering pans
F27B 21/06	1-Punkt Untergruppe	. Endless-strand sintering machines
F27B 21/08	1-Punkt Untergruppe	. Details, accessories, or equipment peculiar to sintering or like apparatus [4]
F27B 21/10	2-Punkt Untergruppe	. . Arrangement of devices for charging [4]
F27B 21/12	2-Punkt Untergruppe	. . Arrangement of devices for discharging [4]
F27B 21/14	2-Punkt Untergruppe	. . Arrangement of controlling, monitoring, alarm or like devices [4]