

Symbol	Typ	Titel
C	Sektion	CHEMISTRY; METALLURGY
C10	Klasse	PETROLEUM, GAS OR COKE INDUSTRIES; TECHNICAL GASES CONTAINING CARBON MONOXIDE; FUELS; LUBRICANTS; PEAT
C10B	Unterklasse	DESTRUCTIVE DISTILLATION OF CARBONACEOUS MATERIALS FOR PRODUCTION OF GAS, COKE, TAR, OR SIMILAR MATERIALS (cracking oils C10G; underground gasification of minerals E21B 43/295) [5] <u>Retorts or coke ovens</u>
C10B 1/00	Hauptgruppe	Retorts
C10B 1/02	1-Punkt Untergruppe	. Stationary retorts
C10B 1/04	2-Punkt Untergruppe	. . Vertical retorts
C10B 1/06	2-Punkt Untergruppe	. . Horizontal retorts
C10B 1/08	2-Punkt Untergruppe	. . Inclined retorts
C10B 1/10	1-Punkt Untergruppe	. Rotary retorts
C10B 3/00	Hauptgruppe	Coke ovens with vertical chambers
C10B 3/02	1-Punkt Untergruppe	. with heat-exchange devices
C10B 5/00	Hauptgruppe	Coke ovens with horizontal chambers
C10B 5/02	1-Punkt Untergruppe	. with vertical heating flues
C10B 5/04	2-Punkt Untergruppe	. . with cross-over inter-connections
C10B 5/06	1-Punkt Untergruppe	. with horizontal heating flues
C10B 5/08	1-Punkt Untergruppe	. with horizontal and vertical heating flues
C10B 5/10	1-Punkt Untergruppe	. with heat-exchange devices
C10B 5/12	2-Punkt Untergruppe	. . with regenerators
C10B 5/14	3-Punkt Untergruppe	. . . situated in the longitudinal direction of the chambers
C10B 5/16	4-Punkt Untergruppe	 with separated flues
C10B 5/18	3-Punkt Untergruppe	. . . situated in the longitudinal direction of the oven battery
C10B 5/20	2-Punkt Untergruppe	. . with recuperators
C10B 7/00	Hauptgruppe	Coke ovens with mechanical conveying means for the raw material inside the oven
C10B 7/02	1-Punkt Untergruppe	. with rotary scraping devices
C10B 7/04	1-Punkt Untergruppe	. with shaking or vibrating devices
C10B 7/06	1-Punkt Untergruppe	. with endless conveying devices
C10B 7/08	2-Punkt Untergruppe	. . in vertical direction
C10B 7/10	1-Punkt Untergruppe	. with conveyer-screws
C10B 7/12	1-Punkt Untergruppe	. with tilting or rocking means
C10B 7/14	1-Punkt Untergruppe	. with trucks, containers, or trays
C10B 9/00	Hauptgruppe	Beehive ovens

Symbol	Typ	Titel
C10B 11/00	Hauptgruppe	Coke ovens with inclined chambers
C10B 13/00	Hauptgruppe	Coke ovens with means for bringing and keeping the charge under mechanical pressure
C10B 15/00	Hauptgruppe	Other coke ovens
C10B 15/02	1-Punkt Untergruppe	. with floor heating
		<u>Heating of coke ovens</u>
C10B 17/00	Hauptgruppe	Preheating of coke ovens
C10B 19/00	Hauptgruppe	Heating of coke ovens by electrical means
C10B 21/00	Hauptgruppe	Heating of coke ovens with combustible gases
C10B 21/02	1-Punkt Untergruppe	. with lean gas
C10B 21/04	1-Punkt Untergruppe	. with rich gas
C10B 21/06	1-Punkt Untergruppe	. in coke ovens suitable for the use of lean gas or rich gas
C10B 21/08	1-Punkt Untergruppe	. by applying special heating gases
C10B 21/10	1-Punkt Untergruppe	. Regulating or controlling the combustion
C10B 21/12	2-Punkt Untergruppe	. . Burners
C10B 21/14	2-Punkt Untergruppe	. . Devices for reversing the draught
C10B 21/16	2-Punkt Untergruppe	. . by controlling or varying the openings between the heating flues and the regenerator flues
C10B 21/18	2-Punkt Untergruppe	. . Recirculating the flue gases
C10B 21/20	1-Punkt Untergruppe	. Methods of heating ovens of the chamber oven type
C10B 21/22	2-Punkt Untergruppe	. . by introducing the heating gas and air at various levels
C10B 21/24	3-Punkt Untergruppe	. . . at the top and the bottom of the vertical heating flues
C10B 21/26	2-Punkt Untergruppe	. . by introducing the heating gas and air at the top of the vertical flues only
C10B 23/00	Hauptgruppe	Other methods of heating coke ovens
C10B 25/00	Hauptgruppe	Doors or closures for coke ovens
C10B 25/02	1-Punkt Untergruppe	. Doors; Door frames
C10B 25/04	2-Punkt Untergruppe	. . for ovens with vertical chambers
C10B 25/06	2-Punkt Untergruppe	. . for ovens with horizontal chambers
C10B 25/08	2-Punkt Untergruppe	. . Closing or opening the doors
C10B 25/10	3-Punkt Untergruppe	. . . for ovens with vertical chambers
C10B 25/12	3-Punkt Untergruppe	. . . for ovens with horizontal chambers
C10B 25/14	3-Punkt Untergruppe	. . . Devices for lifting doors
C10B 25/16	2-Punkt Untergruppe	. . Sealing; Means for sealing
C10B 25/18	2-Punkt Untergruppe	. . Cooling
C10B 25/20	1-Punkt Untergruppe	. Lids or closures for charging holes
C10B 25/22	2-Punkt Untergruppe	. . for ovens with vertical chambers
C10B 25/24	2-Punkt Untergruppe	. . for ovens with horizontal chambers

Symbol	Typ	Titel
C10B 27/00	Hauptgruppe	Arrangements for withdrawal of the distillation gases
C10B 27/02	1-Punkt Untergruppe	. with outlets arranged at different levels in the chamber
C10B 27/04	1-Punkt Untergruppe	. during the charging operation of the oven
C10B 27/06	1-Punkt Untergruppe	. Conduit details, e.g. valves
C10B 29/00	Hauptgruppe	Other details of coke ovens
C10B 29/02	1-Punkt Untergruppe	. Brickwork, e.g. casings, linings, walls
C10B 29/04	1-Punkt Untergruppe	. Controlling or preventing expansion or contraction
C10B 29/06	1-Punkt Untergruppe	. Preventing or repairing leakages of the brickwork
C10B 29/08	1-Punkt Untergruppe	. Bracing or foundation of the ovens
		<u>Devices for charging or discharging coke ovens; Mechanical treatments of coal charges</u>
C10B 31/00	Hauptgruppe	Charging devices
C10B 31/02	1-Punkt Untergruppe	. for charging vertically
C10B 31/04	2-Punkt Untergruppe	. . coke ovens with horizontal chambers
C10B 31/06	1-Punkt Untergruppe	. for charging horizontally
C10B 31/08	2-Punkt Untergruppe	. . coke ovens with horizontal chambers
C10B 31/10	3-Punkt Untergruppe	. . . with one compact charge
C10B 31/12	1-Punkt Untergruppe	. for liquid materials
C10B 33/00	Hauptgruppe	Discharging devices; Coke guides
C10B 33/02	1-Punkt Untergruppe	. Extracting coke with built-in devices, e.g. gears, screws
C10B 33/04	1-Punkt Untergruppe	. Pulling-out devices
C10B 33/06	2-Punkt Untergruppe	. . for horizontal chambers
C10B 33/08	1-Punkt Untergruppe	. Pushers, e.g. rams
C10B 33/10	2-Punkt Untergruppe	. . for horizontal chambers
C10B 33/12	1-Punkt Untergruppe	. Discharge valves
C10B 33/14	1-Punkt Untergruppe	. Coke guides
C10B 35/00	Hauptgruppe	Combined charging and discharging devices
C10B 37/00	Hauptgruppe	Mechanical treatments of coal charges in the oven
C10B 37/02	1-Punkt Untergruppe	. Levelling charges, e.g. with bars
C10B 37/04	1-Punkt Untergruppe	. Compressing charges (during coking C10B 47/12)
C10B 37/06	1-Punkt Untergruppe	. Forming holes in charges
C10B 39/00	Hauptgruppe	Cooling or quenching coke
C10B 39/02	1-Punkt Untergruppe	. Dry cooling outside the oven
C10B 39/04	1-Punkt Untergruppe	. Wet quenching
C10B 39/06	2-Punkt Untergruppe	. . in the oven

Symbol	Typ	Titel
C10B 39/08	2-Punkt Untergruppe	. . Coke-quenching towers
C10B 39/10	1-Punkt Untergruppe	. combined with agitating means, e.g. rotating tables or drums
C10B 39/12	1-Punkt Untergruppe	. combined with conveying means
C10B 39/14	1-Punkt Untergruppe	. Cars
C10B 39/16	1-Punkt Untergruppe	. combined with sorting
C10B 39/18	1-Punkt Untergruppe	. Coke ramps
C10B 41/00	Hauptgruppe	Safety devices, e.g. signalling or controlling devices for use in the discharge of coke
C10B 41/02	1-Punkt Untergruppe	. for discharging coke
C10B 41/04	2-Punkt Untergruppe	. . by electrical means
C10B 41/06	2-Punkt Untergruppe	. . by pneumatic or hydraulic means
C10B 41/08	1-Punkt Untergruppe	. for the withdrawal of the distillation gases
C10B 43/00	Hauptgruppe	Preventing or removing incrustations
C10B 43/02	1-Punkt Untergruppe	. Removing incrustations
C10B 43/04	2-Punkt Untergruppe	. . by mechanical means
C10B 43/06	3-Punkt Untergruppe	. . . from conduits, valves or the like
C10B 43/08	2-Punkt Untergruppe	. . with liquids
C10B 43/10	2-Punkt Untergruppe	. . by burning out
C10B 43/12	3-Punkt Untergruppe	. . . Burners
C10B 43/14	1-Punkt Untergruppe	. Preventing incrustations
C10B 45/00	Hauptgruppe	Other details
C10B 45/02	1-Punkt Untergruppe	. Devices for producing compact unified coal charges outside the oven (briquetting presses B30B)
		<u>Carbonising or coking processes</u>
C10B 47/00	Hauptgruppe	Destructive distillation of solid carbonaceous materials with indirect heating, e.g. by external combustion
C10B 47/02	1-Punkt Untergruppe	. with stationary charge
C10B 47/04	2-Punkt Untergruppe	. . in shaft furnaces
C10B 47/06	2-Punkt Untergruppe	. . in retorts
C10B 47/08	2-Punkt Untergruppe	. . in beehive ovens
C10B 47/10	2-Punkt Untergruppe	. . in coke ovens of the chamber type
C10B 47/12	2-Punkt Untergruppe	. . in which the charge is subjected to mechanical pressure during coking
C10B 47/14	2-Punkt Untergruppe	. . with the aid of hot liquids, e.g. molten salts
C10B 47/16	2-Punkt Untergruppe	. . with indirect heating means both inside and outside the retorts
C10B 47/18	1-Punkt Untergruppe	. with moving charge
C10B 47/20	2-Punkt Untergruppe	. . according to the "moving bed" technique (C10B 47/26 takes precedence)

Symbol	Typ	Titel
C10B 47/22	2-Punkt Untergruppe	. . in dispersed form (C10B 47/26 takes precedence)
C10B 47/24	3-Punkt Untergruppe	. . . according to the "fluidised bed" technique
C10B 47/26	2-Punkt Untergruppe	. . with the aid of hot liquids, e.g. molten salts
C10B 47/28	1-Punkt Untergruppe	. Other processes
C10B 47/30	2-Punkt Untergruppe	. . in rotary ovens or retorts
C10B 47/32	2-Punkt Untergruppe	. . in ovens with mechanical conveying means
C10B 47/34	3-Punkt Untergruppe	. . . with rotary scraping devices
C10B 47/36	4-Punkt Untergruppe	 in multi-stage ovens
C10B 47/38	3-Punkt Untergruppe	. . . with shaking or vibrating devices
C10B 47/40	3-Punkt Untergruppe	. . . with endless conveying devices
C10B 47/42	4-Punkt Untergruppe	 in vertical direction
C10B 47/44	3-Punkt Untergruppe	. . . with conveyer-screws
C10B 47/46	3-Punkt Untergruppe	. . . with trucks, containers, or trays
C10B 47/48	3-Punkt Untergruppe	. . . with tilting or rocking means
C10B 49/00	Hauptgruppe	Destructive distillation of solid carbonaceous materials by direct heating with heat-carrying agents including the partial combustion of the solid material to be treated
C10B 49/02	1-Punkt Untergruppe	. with hot gases or vapours, e.g. hot gases obtained by partial combustion of the charge
C10B 49/04	2-Punkt Untergruppe	. . while moving the solid material to be treated
C10B 49/06	3-Punkt Untergruppe	. . . according to the "moving bed" technique
C10B 49/08	3-Punkt Untergruppe	. . . in dispersed form
C10B 49/10	4-Punkt Untergruppe	 according to the "fluidised bed" technique
C10B 49/12	4-Punkt Untergruppe	 by mixing tangentially, e.g. in vortex chambers
C10B 49/14	1-Punkt Untergruppe	. with hot liquids, e.g. molten metals
C10B 49/16	1-Punkt Untergruppe	. with moving solid heat-carriers in divided form
C10B 49/18	2-Punkt Untergruppe	. . according to the "moving bed" technique
C10B 49/20	2-Punkt Untergruppe	. . in dispersed form
C10B 49/22	3-Punkt Untergruppe	. . . according to the "fluidised bed" technique
C10B 51/00	Hauptgruppe	Destructive distillation of solid carbonaceous materials by combined direct and indirect heating
C10B 53/00	Hauptgruppe	Destructive distillation, specially adapted for particular solid raw materials or solid raw materials in special form (wet carbonising of peat C10F)
C10B 53/02	1-Punkt Untergruppe	. of cellulose-containing material (production of pyroligneous acid C10C 5/00)
C10B 53/04	1-Punkt Untergruppe	. of powdered coal
C10B 53/06	1-Punkt Untergruppe	. of oil shale or bituminous rocks
C10B 53/08	1-Punkt Untergruppe	. in the form of briquettes, lumps or the like

Symbol	Typ	Titel
C10B 55/00	Hauptgruppe	Coking mineral oils, bitumen, tar or the like, or mixtures thereof, with solid carbonaceous materials (cracking oils C10G)
C10B 55/02	1-Punkt Untergruppe	. with solid materials
C10B 55/04	2-Punkt Untergruppe	. . with moving solid materials
C10B 55/06	3-Punkt Untergruppe	. . . according to the "moving bed" technique
C10B 55/08	3-Punkt Untergruppe	. . . in dispersed form
C10B 55/10	4-Punkt Untergruppe	 according to the "fluidised bed" technique
C10B 57/00	Hauptgruppe	Other processes not covered above; Features of destructive distillation processes in general
C10B 57/02	1-Punkt Untergruppe	. Multi-step carbonising or coking processes
C10B 57/04	1-Punkt Untergruppe	. using charges of special composition
C10B 57/06	2-Punkt Untergruppe	. . containing additives
C10B 57/08	1-Punkt Untergruppe	. Non-mechanical pretreatment of the charge (C10L 9/00 takes precedence)
C10B 57/10	2-Punkt Untergruppe	. . Drying
C10B 57/12	1-Punkt Untergruppe	. Applying additives during coking
C10B 57/14	1-Punkt Untergruppe	. Features of low-temperature carbonising processes
C10B 57/16	1-Punkt Untergruppe	. Features of high-temperature carbonising processes
C10B 57/18	1-Punkt Untergruppe	. Modifying the properties of the distillation gases in the oven (outside the oven C10K)