

Symbol	Typ	Titel
C	Sektion	CHEMISTRY; METALLURGY
C03	Klasse	GLASS; MINERAL OR SLAG WOOL
C03B	Unterklasse	MANUFACTURE, SHAPING, OR SUPPLEMENTARY PROCESSES
		<u>Melting the raw material</u>
C03B 1/00	Hauptgruppe	Preparing the batches (chemical compositions C03C)
C03B 1/02	1-Punkt Untergruppe	. Compacting the glass batches, e.g. pelletising [5]
C03B 3/00	Hauptgruppe	Charging the melting furnaces
C03B 3/02	1-Punkt Untergruppe	. combined with preheating, premelting or pretreating the glass-making ingredients, pellets or cullet [5]
C03B 5/00	Hauptgruppe	Melting in furnaces; Furnaces so far as specially adapted for glass manufacture
C03B 5/02	1-Punkt Untergruppe	. in electric furnaces
C03B 5/027	2-Punkt Untergruppe	. . by passing an electric current between electrodes immersed in the glass bath, i.e. by direct resistance heating [3]
C03B 5/03	3-Punkt Untergruppe	. . . Tank furnaces [5]
C03B 5/033	2-Punkt Untergruppe	. . by using resistance heaters above or in the glass bath, i.e. by indirect resistance heating [3]
C03B 5/04	1-Punkt Untergruppe	. in tank furnaces
C03B 5/05	2-Punkt Untergruppe	. . Discontinuously-working tank furnaces, e.g. day tanks [5]
C03B 5/06	1-Punkt Untergruppe	. in pot furnaces
C03B 5/08	2-Punkt Untergruppe	. . Glass-melting pots
C03B 5/10	1-Punkt Untergruppe	. in combined tank furnaces and pots
C03B 5/12	1-Punkt Untergruppe	. in shaft furnaces
C03B 5/14	1-Punkt Untergruppe	. in revolving cylindrical furnaces
C03B 5/16	1-Punkt Untergruppe	. Special features of the melting process; Auxiliary means specially adapted for glass-melting furnaces
C03B 5/167	2-Punkt Untergruppe	. . Means for preventing damage to equipment, e.g. by molten glass, hot gases, batches (C03B 5/20 , C03B 5/42 take precedence) [5]
C03B 5/173	2-Punkt Untergruppe	. . Apparatus for changing the composition of the molten glass in glass furnaces, e.g. for colouring the molten glass (chemical aspects C03C) [5]
C03B 5/18	2-Punkt Untergruppe	. . Stirring devices; Homogenisation
C03B 5/182	3-Punkt Untergruppe	. . . by moving the molten glass along fixed elements, e.g. deflectors, weirs, baffle plates [5]
C03B 5/183	3-Punkt Untergruppe	. . . using thermal means, e.g. for creating convection currents [5]
C03B 5/185	4-Punkt Untergruppe	 Electric means [5]
C03B 5/187	3-Punkt Untergruppe	. . . with moving elements [3]
C03B 5/193	3-Punkt Untergruppe	. . . using gas, e.g. bubblers [3]
C03B 5/20	2-Punkt Untergruppe	. . Bridges, shoes, throats, or other devices for withholding dirt, foam, or batch
C03B 5/225	2-Punkt Untergruppe	. . Refining (C03B 5/18 takes precedence) [3]

Symbol	Typ	Titel
C03B 5/23	2-Punkt Untergruppe	. . Cooling the molten glass (C03B 5/18 , C03B 5/225 take precedence) [3]
C03B 5/235	2-Punkt Untergruppe	. . Heating the glass (C03B 5/02 , C03B 5/18 , C03B 5/225 take precedence) [3]
C03B 5/237	3-Punkt Untergruppe	. . . Regenerators or recuperators specially adapted for glass-melting furnaces [5]
C03B 5/24	2-Punkt Untergruppe	. . Automatically regulating the melting process
C03B 5/26	2-Punkt Untergruppe	. . Outlets; Overflows
C03B 5/28	2-Punkt Untergruppe	. . Siphons
C03B 5/42	2-Punkt Untergruppe	. . Details of construction of furnace walls, e.g. to prevent corrosion; Use of materials for furnace walls [3]
C03B 5/425	3-Punkt Untergruppe	. . . Preventing corrosion or erosion (C03B 5/44 takes precedence) [5]
C03B 5/43	3-Punkt Untergruppe	. . . Use of materials for furnace walls, e.g. fire-bricks [5]
C03B 5/435	3-Punkt Untergruppe	. . . Heating arrangements for furnace walls [5]
C03B 5/44	3-Punkt Untergruppe	. . . Cooling arrangements for furnace walls [3]
C03B 7/00	Hauptgruppe	Distributors for the molten glass; Means for taking-off charges of molten glass; Producing the gob
C03B 7/01	1-Punkt Untergruppe	. Means for taking-off charges of molten glass [5]
C03B 7/02	1-Punkt Untergruppe	. Forehearth, i.e. feeder channels [3]
C03B 7/04	2-Punkt Untergruppe	. . Revolving forehearth [3]
C03B 7/06	2-Punkt Untergruppe	. . Means for thermal conditioning or controlling the temperature of the glass [3]
C03B 7/07	3-Punkt Untergruppe	. . . Electric means [5]
C03B 7/08	1-Punkt Untergruppe	. Feeder spouts, e.g. gob feeders [3]
C03B 7/082	2-Punkt Untergruppe	. . Pneumatic feeders [5]
C03B 7/084	2-Punkt Untergruppe	. . Tube mechanisms [5]
C03B 7/086	2-Punkt Untergruppe	. . Plunger mechanisms [5]
C03B 7/088	2-Punkt Untergruppe	. . Outlets, e.g. orifice rings [5]
C03B 7/09	2-Punkt Untergruppe	. . Spout blocks [5]
C03B 7/092	2-Punkt Untergruppe	. . Stirring devices; Homogenisation (C03B 5/18 takes precedence) [5]
C03B 7/094	2-Punkt Untergruppe	. . Means for heating, cooling or insulation [5]
C03B 7/096	3-Punkt Untergruppe	. . . for heating [5]
C03B 7/098	4-Punkt Untergruppe	 electric [5]
C03B 7/10	1-Punkt Untergruppe	. Cutting-off the glass flow with the aid of knives or scissors; Construction of the blades used [3]
C03B 7/11	2-Punkt Untergruppe	. . Construction of the blades [5]
C03B 7/12	2-Punkt Untergruppe	. . Cutting-off a free-hanging glass stream [3]
C03B 7/14	1-Punkt Untergruppe	. Transferring molten glass or gobs to glass blowing or pressing machines (C03B 7/18 to C03B 7/22 take precedence) [3]
C03B 7/16	2-Punkt Untergruppe	. . using deflector chutes [3]

Symbol	Typ	Titel
C03B 7/18	1-Punkt Untergruppe	. Suction feeders [3]
C03B 7/20	1-Punkt Untergruppe	. Scoop feeders [3]
C03B 7/22	1-Punkt Untergruppe	. Gathering-devices in the form of rods or pipes [3]
C03B 8/00	Hauptgruppe	Production of glass by other processes than melting processes (C03B 37/014 takes precedence; preparation of finely divided silica, in general C01B 33/18) [4]
C03B 8/02	1-Punkt Untergruppe	. by liquid phase reaction processes [4]
C03B 8/04	1-Punkt Untergruppe	. by gas phase reaction processes [4]
		<u>Shaping of glass (manufacture of fibres C03B 37/00)</u>
C03B 9/00	Hauptgruppe	Blowing glass; Production of hollow glass articles
C03B 9/02	1-Punkt Untergruppe	. with the mouth; Auxiliary means therefor
C03B 9/03	2-Punkt Untergruppe	. . Blow pipes [3]
C03B 9/04	2-Punkt Untergruppe	. . Making hollow glass articles with feet or projections
C03B 9/06	2-Punkt Untergruppe	. . Making hollow glass articles with double walls, e.g. vacuum flasks
C03B 9/08	1-Punkt Untergruppe	. Finish-blowing with compressed air of blanks blown with the mouth
C03B 9/10	1-Punkt Untergruppe	. Blowing glass cylinders for sheet manufacture
C03B 9/12	1-Punkt Untergruppe	. starting from a ribbon of glass; Ribbon machines
C03B 9/13	1-Punkt Untergruppe	. in gob feeder machines (C03B 9/28 , C03B 9/29 take precedence) [3]
C03B 9/14	2-Punkt Untergruppe	. . in "blow" machines or in "blow-and-blow" machines (C03B 9/193 , C03B 9/20 take precedence) [3]
C03B 9/16	3-Punkt Untergruppe	. . . in machines with turn-over moulds [3]
C03B 9/18	4-Punkt Untergruppe	 Rotary-table machines [3]
C03B 9/19	5-Punkt Untergruppe	 having only one rotary table [3]
C03B 9/193	2-Punkt Untergruppe	. . in "press-and-blow" machines [3]
C03B 9/195	3-Punkt Untergruppe	. . . Rotary-table machines [3]
C03B 9/197	3-Punkt Untergruppe	. . . Construction of the blank mould [3]
C03B 9/20	1-Punkt Untergruppe	. in "vacuum blowing" or in "vacuum-and-blow" machines
C03B 9/22	2-Punkt Untergruppe	. . Rotary table machines
C03B 9/24	2-Punkt Untergruppe	. . Construction of the blank mould
C03B 9/28	1-Punkt Untergruppe	. in machines of the endless-chain type (C03B 9/12 takes precedence) [3]
C03B 9/29	1-Punkt Untergruppe	. Paste mould machines (C03B 9/28 takes precedence) [3]
C03B 9/295	2-Punkt Untergruppe	. . Rotary table machines [5]
C03B 9/30	1-Punkt Untergruppe	. Details of blowing glass (for blowing with the mouth C03B 9/02); Use of materials for the moulds
C03B 9/31	2-Punkt Untergruppe	. . Blowing laminated glass articles or glass with enclosures, e.g. wires, bubbles [5]
C03B 9/32	2-Punkt Untergruppe	. . Giving special shapes to parts of hollow glass articles

Symbol	Typ	Titel
C03B 9/325	3-Punkt Untergruppe	. . . Forming screw threads or lips at the mouth of hollow glass articles; Neck moulds [3]
C03B 9/33	3-Punkt Untergruppe	. . . Making hollow glass articles with feet or projections; Moulds therefor [3]
C03B 9/335	3-Punkt Untergruppe	. . . Forming bottoms to blown hollow glass articles; Bottom moulds [3]
C03B 9/34	2-Punkt Untergruppe	. . Glass-blowing moulds not otherwise provided for
C03B 9/347	3-Punkt Untergruppe	. . . Construction of the blank or blow mould [3]
C03B 9/353	3-Punkt Untergruppe	. . . Mould holders [3]
C03B 9/36	2-Punkt Untergruppe	. . Blow heads; Supplying, ejecting, or controlling the air
C03B 9/38	2-Punkt Untergruppe	. . Means for cooling, heating, or insulating glass-blowing machines
C03B 9/40	2-Punkt Untergruppe	. . Gearing or controlling mechanisms specially adapted for glass-blowing machines
C03B 9/41	3-Punkt Untergruppe	. . . Electric or electronic systems (in general G05B 19/00) [5]
C03B 9/42	2-Punkt Untergruppe	. . Means for fusing, burning-off, or edge-melting combined with glass-blowing machines (uniting glass pieces by fusing C03B 23/20)
C03B 9/44	2-Punkt Untergruppe	. . Means for discharging combined with glass-blowing machines, e.g. take-outs
C03B 9/447	3-Punkt Untergruppe	. . . Means for the removal of glass articles from the blow-mould, e.g. take-outs [5]
C03B 9/453	3-Punkt Untergruppe	. . . Means for pushing newly formed glass articles onto a conveyer, e.g. sweep-out mechanisms; Dead-plate mechanisms [5]
C03B 9/46	2-Punkt Untergruppe	. . Means for cutting the hot glass in glass-blowing machines (burning-off C03B 9/42)
C03B 9/48	2-Punkt Untergruppe	. . Use of materials for the moulds [3]
C03B 11/00	Hauptgruppe	Pressing glass
C03B 11/02	1-Punkt Untergruppe	. in machines with rotary tables
C03B 11/04	1-Punkt Untergruppe	. in machines with moulds fed by suction
C03B 11/05	1-Punkt Untergruppe	. in machines with reciprocating moulds [3]
C03B 11/06	1-Punkt Untergruppe	. Construction of plunger or mould
C03B 11/07	2-Punkt Untergruppe	. . Suction moulds [3]
C03B 11/08	2-Punkt Untergruppe	. . for making solid articles, e.g. lenses
C03B 11/10	2-Punkt Untergruppe	. . for making hollow articles
C03B 11/12	1-Punkt Untergruppe	. Cooling, heating, or insulating the plunger, the mould, or the glass-pressing machine (C03B 9/38 takes precedence) [3]
C03B 11/14	1-Punkt Untergruppe	. with metal inserts
C03B 11/16	1-Punkt Untergruppe	. Gearing or controlling mechanisms specially adapted for glass presses
C03B 13/00	Hauptgruppe	Rolling glass
C03B 13/01	1-Punkt Untergruppe	. Rolling profiled glass articles [5]
C03B 13/02	1-Punkt Untergruppe	. Rolling non-patterned sheets discontinuously
C03B 13/04	1-Punkt Untergruppe	. Rolling non-patterned sheets continuously

Symbol	Typ	Titel
C03B 13/06	1-Punkt Untergruppe	. Rolling corrugated sheets
C03B 13/08	1-Punkt Untergruppe	. Rolling patterned sheets
C03B 13/10	1-Punkt Untergruppe	. Rolling multi-layer sheets
C03B 13/12	1-Punkt Untergruppe	. Rolling glass with enclosures, e.g. wire or asbestos
C03B 13/14	1-Punkt Untergruppe	. Rolling other articles
C03B 13/16	1-Punkt Untergruppe	. Construction of the glass rollers
C03B 13/18	1-Punkt Untergruppe	. Auxiliary means for rolling glass, e.g. sheet supports, gripping devices, hand-ladles, means for moving glass pots
C03B 15/00	Hauptgruppe	Drawing glass upwardly from the melt
C03B 15/02	1-Punkt Untergruppe	. Drawing glass sheets
C03B 15/04	2-Punkt Untergruppe	. . from the free surface of the melt
C03B 15/06	2-Punkt Untergruppe	. . from a debiteuse
C03B 15/08	2-Punkt Untergruppe	. . by means of bars below the surface of the melt
C03B 15/10	2-Punkt Untergruppe	. . multi-layer glass sheets or glass sheets coated with coloured layers
C03B 15/12	2-Punkt Untergruppe	. . Construction of the annealing tower
C03B 15/14	1-Punkt Untergruppe	. Drawing tubes, cylinders, or rods from the melt
C03B 15/16	2-Punkt Untergruppe	. . Drawing tubes, cylinders, or rods, coated with coloured layers
C03B 15/18	1-Punkt Untergruppe	. Means for laying-down and conveying combined with the drawing of glass sheets, tubes, or rods
C03B 17/00	Hauptgruppe	Forming glass by flowing out, pushing-out, or drawing downwardly or laterally from forming slits or by overflowing over lips
C03B 17/02	1-Punkt Untergruppe	. Forming glass coated with coloured layers
C03B 17/04	1-Punkt Untergruppe	. Forming tubes or rods by drawing from stationary or rotating tools or from forming nozzles
C03B 17/06	1-Punkt Untergruppe	. Forming glass sheets [3]
C03B 18/00	Hauptgruppe	Shaping glass in contact with the surface of a liquid
C03B 18/02	1-Punkt Untergruppe	. Forming sheets
C03B 18/04	2-Punkt Untergruppe	. . Changing or regulating the dimensions of the molten glass ribbon [3]
C03B 18/06	3-Punkt Untergruppe	. . . using mechanical means, e.g. restrictor bars, edge rollers [3]
C03B 18/08	3-Punkt Untergruppe	. . . using gas [3]
C03B 18/10	3-Punkt Untergruppe	. . . using electric means [3]
C03B 18/12	2-Punkt Untergruppe	. . Making multilayer, coloured or armoured glass (chemical aspects C03C) [3]
C03B 18/14	2-Punkt Untergruppe	. . Changing the surface of the glass ribbon, e.g. roughening (by chemical methods C03C) [3]
C03B 18/16	2-Punkt Untergruppe	. . Construction of the float tank; Use of material for the float tank; Coating or protection of the tank wall [3]
C03B 18/18	2-Punkt Untergruppe	. . Controlling or regulating the temperature of the float bath; Composition or purification of the float bath [3]

Symbol	Typ	Titel
C03B 18/20	2-Punkt Untergruppe	. . Composition of the atmosphere above the float bath; Treating or purifying the atmosphere above the float bath [3]
C03B 18/22	3-Punkt Untergruppe	. . . Controlling or regulating the temperature of the atmosphere above the float tank [3]
C03B 19/00	Hauptgruppe	Other methods of shaping glass (manufacture or treatment of flakes, fibres, or filaments from softened glass, minerals, or slags C03B 37/00)
C03B 19/01	1-Punkt Untergruppe	. by progressive fusion of powdered glass onto a shaping substrate, i.e. accretion [5]
C03B 19/02	1-Punkt Untergruppe	. by casting
C03B 19/04	1-Punkt Untergruppe	. by centrifuging
C03B 19/06	1-Punkt Untergruppe	. by sintering (production of quartz or fused silica articles C03B 20/00) [2]
C03B 19/08	1-Punkt Untergruppe	. by foaming
C03B 19/09	1-Punkt Untergruppe	. by fusing powdered glass in a shaping mould [3]
C03B 19/10	1-Punkt Untergruppe	. Forming beads
C03B 19/12	1-Punkt Untergruppe	. by liquid-phase reaction processes [5]
C03B 19/14	1-Punkt Untergruppe	. by gas-phase reaction processes [5]
C03B 20/00	Hauptgruppe	Processes specially adapted for the production of quartz or fused silica articles [3]
C03B 21/00	Hauptgruppe	Severing glass sheets, tubes, or rods while still plastic
C03B 21/02	1-Punkt Untergruppe	. by cutting (C03B 9/46 takes precedence)
C03B 21/04	1-Punkt Untergruppe	. by punching out
C03B 21/06	1-Punkt Untergruppe	. by flashing-off, burning-off, or fusing (C03B 9/42 takes precedence) [3]
C03B 23/00	Hauptgruppe	Re-forming shaped glass (re-forming fibres or filaments C03B 37/14)
C03B 23/02	1-Punkt Untergruppe	. Re-forming glass sheets
C03B 23/023	2-Punkt Untergruppe	. . by bending [3]
C03B 23/025	3-Punkt Untergruppe	. . . by gravity [3]
C03B 23/027	4-Punkt Untergruppe	 with moulds having at least two upward pivotable mould sections [3]
C03B 23/03	3-Punkt Untergruppe	. . . by press-bending between shaping moulds [3]
C03B 23/031	4-Punkt Untergruppe	 the glass sheets being in a vertical position (C03B 23/033 takes precedence) [5]
C03B 23/033	4-Punkt Untergruppe	 in a continuous way, e.g. roll forming [3]
C03B 23/035	3-Punkt Untergruppe	. . . using a gas cushion or by changing gas pressure, e.g. by applying vacuum [3]
C03B 23/037	2-Punkt Untergruppe	. . by drawing [3]
C03B 23/04	1-Punkt Untergruppe	. Re-forming tubes or rods
C03B 23/043	2-Punkt Untergruppe	. . Heating devices specially adapted for re-forming tubes or rods in general, e.g. burners [5]
C03B 23/045	2-Punkt Untergruppe	. . Tools or apparatus specially adapted for re-forming tubes or rods in general, e.g. glass lathes, chucks (C03B 23/043 takes precedence) [5]
C03B 23/047	2-Punkt Untergruppe	. . by drawing (C03B 37/025 takes precedence) [5]
C03B 23/049	2-Punkt Untergruppe	. . by pressing (C03B 21/04 , C03B 23/26 take precedence) [5]

Symbol	Typ	Titel
C03B 23/051	2-Punkt Untergruppe	. . by gravity, e.g. sagging [5]
C03B 23/053	2-Punkt Untergruppe	. . by centrifuging (C03B 37/04 takes precedence) [5]
C03B 23/055	2-Punkt Untergruppe	. . by rolling [5]
C03B 23/057	2-Punkt Untergruppe	. . by fusing, e.g. for flame sealing (C03B 9/42 , C03B 21/06 , C03B 33/08 take precedence) [5]
C03B 23/06	2-Punkt Untergruppe	. . by bending
C03B 23/07	2-Punkt Untergruppe	. . by blowing, e.g. for making electric bulbs [3]
C03B 23/08	2-Punkt Untergruppe	. . to exact dimensions, e.g. calibrating
C03B 23/09	2-Punkt Untergruppe	. . Reshaping the ends, e.g. as grooves, threads or mouths [3]
C03B 23/11	2-Punkt Untergruppe	. . Reshaping by drawing without blowing, in combination with separating, e.g. for making ampoules [3]
C03B 23/13	2-Punkt Untergruppe	. . Reshaping combined with uniting or heat sealing, e.g. making vacuum bottles [3]
C03B 23/18	1-Punkt Untergruppe	. Re-forming and sealing ampoules
C03B 23/20	1-Punkt Untergruppe	. Uniting glass pieces by fusing without substantial reshaping
C03B 23/203	2-Punkt Untergruppe	. . Uniting glass sheets (C03B 23/24 takes precedence) [3]
C03B 23/207	2-Punkt Untergruppe	. . Uniting glass rods, glass tubes, or hollow glassware (C03B 23/24 takes precedence) [3]
C03B 23/213	3-Punkt Untergruppe	. . . Joining projections or feet [3]
C03B 23/217	3-Punkt Untergruppe	. . . for the production of cathode ray tubes or similarly shaped tubes [3]
C03B 23/22	2-Punkt Untergruppe	. . Uniting glass lenses, e.g. forming bifocal lenses
C03B 23/24	2-Punkt Untergruppe	. . Making hollow glass sheets or bricks
C03B 23/26	1-Punkt Untergruppe	. Punching reheated glass
<u>After-treatment of glass product (of fibres C03B 37/10)</u>		
C03B 25/00	Hauptgruppe	Annealing glass products
C03B 25/02	1-Punkt Untergruppe	. in a discontinuous way
C03B 25/04	1-Punkt Untergruppe	. in a continuous way
C03B 25/06	2-Punkt Untergruppe	. . with horizontal displacement of the glass products [3]
C03B 25/08	3-Punkt Untergruppe	. . . of glass sheets [3]
C03B 25/087	4-Punkt Untergruppe	 being in a vertical position [5]
C03B 25/093	4-Punkt Untergruppe	 being in a horizontal position on a fluid support, e.g. a gas or molten metal [5]
C03B 25/10	2-Punkt Untergruppe	. . with vertical displacement of the glass products [3]
C03B 25/12	3-Punkt Untergruppe	. . . of glass sheets [3]
C03B 27/00	Hauptgruppe	Tempering glass products
C03B 27/004	1-Punkt Untergruppe	. by bringing the hot glass product in contact with a solid cooling surface, e.g. sand grains [5]
C03B 27/008	1-Punkt Untergruppe	. by using heat of sublimation of solid particles [5]

Symbol	Typ	Titel
C03B 27/012	1-Punkt Untergruppe	. by heat treatment, e.g. for crystallisation; Heat treatment of glass products before tempering by cooling (C03B 27/008 , C03B 27/016 take precedence) [5]
C03B 27/016	1-Punkt Untergruppe	. by absorbing heat radiated from the glass product [5]
C03B 27/02	1-Punkt Untergruppe	. using liquid [3, 5]
C03B 27/03	2-Punkt Untergruppe	. . the liquid being a molten metal or a molten salt [5]
C03B 27/04	1-Punkt Untergruppe	. using gas [3]
C03B 27/044	2-Punkt Untergruppe	. . for flat or bent glass sheets being in a horizontal position [5]
C03B 27/048	3-Punkt Untergruppe	. . . on a gas cushion [5]
C03B 27/052	2-Punkt Untergruppe	. . for flat or bent glass sheets being in a vertical position [5]
C03B 27/056	3-Punkt Untergruppe	. . . supported on the lower edge [5]
C03B 27/06	2-Punkt Untergruppe	. . for glass products other than flat or bent glass plates, e.g. hollow glassware, lenses [3]
C03B 29/00	Hauptgruppe	Reheating glass products for softening or fusing their surfaces; Fire-polishing; Fusing of margins
C03B 29/02	1-Punkt Untergruppe	. in a discontinuous way
C03B 29/04	1-Punkt Untergruppe	. in a continuous way
C03B 29/06	2-Punkt Untergruppe	. . with horizontal displacement of the products [5]
C03B 29/08	3-Punkt Untergruppe	. . . Glass sheets [5]
C03B 29/10	4-Punkt Untergruppe	 being in a vertical position [5]
C03B 29/12	4-Punkt Untergruppe	 being in a horizontal position on a fluid support, e.g. a gas or molten metal [5]
C03B 29/14	2-Punkt Untergruppe	. . with vertical displacement of the products [5]
C03B 29/16	3-Punkt Untergruppe	. . . Glass sheets [5]
C03B 31/00	Hauptgruppe	Manufacture of rippled or crackled glass
C03B 32/00	Hauptgruppe	Thermal after-treatment of glass products not provided for in groups C03B 25/00 to C03B 31/00 , e.g. crystallisation, eliminating gas inclusions or other impurities [2]
C03B 32/02	1-Punkt Untergruppe	. Thermal crystallisation, e.g. for crystallising glass bodies into glass-ceramic articles [5]
C03B 33/00	Hauptgruppe	Severing cooled glass (severing glass fibres C03B 37/16)
C03B 33/02	1-Punkt Untergruppe	. Cutting or splitting sheet glass; Apparatus or machines therefor (C03B 33/09 takes precedence; glass-cutting tools C03B 33/10) [3]
C03B 33/023	2-Punkt Untergruppe	. . the sheet being in a horizontal position [5]
C03B 33/027	3-Punkt Untergruppe	. . . Scoring tool holders; Driving mechanisms therefor [5]
C03B 33/03	3-Punkt Untergruppe	. . . Glass cutting tables; Apparatus for transporting or handling sheet glass during the cutting or breaking operations [5]
C03B 33/033	3-Punkt Untergruppe	. . . Apparatus for opening score lines in glass sheets [5]
C03B 33/037	3-Punkt Untergruppe	. . . Controlling or regulating [5]
C03B 33/04	2-Punkt Untergruppe	. . Cutting or splitting in curves, especially for making spectacle lenses
C03B 33/06	1-Punkt Untergruppe	. Cutting or splitting glass tubes, rods, or hollow products (C03B 33/09 takes precedence) [3]

Symbol	Typ	Titel
C03B 33/07	1-Punkt Untergruppe	. Cutting armoured or laminated glass products [3]
C03B 33/08	1-Punkt Untergruppe	. by fusing
C03B 33/085	2-Punkt Untergruppe	. . Tubes, rods or hollow products [5]
C03B 33/09	1-Punkt Untergruppe	. by thermal shock [3]
C03B 33/095	2-Punkt Untergruppe	. . Tubes, rods or hollow products [5]
C03B 33/10	1-Punkt Untergruppe	. Glass-cutting tools, e.g. scoring tools
C03B 33/12	2-Punkt Untergruppe	. . Hand tools [3]
C03B 33/14	3-Punkt Untergruppe	. . . specially adapted for cutting tubes, rods or hollow products [5]
C03B 35/00	Hauptgruppe	Transporting of glass products during their manufacture (conveying systems for fragile sheets, e.g. glass, B65G 49/06) [2]
C03B 35/04	1-Punkt Untergruppe	. Transporting of hot hollow glass products (C03B 35/26 takes precedence) [3]
C03B 35/06	2-Punkt Untergruppe	. . Feeding of hot hollow glass products into annealing or heating kilns [3]
C03B 35/08	3-Punkt Untergruppe	. . . using rotary means directly acting on the products [3]
C03B 35/10	3-Punkt Untergruppe	. . . using reciprocating means directly acting on the products, e.g. pushers, stackers [3]
C03B 35/12	3-Punkt Untergruppe	. . . by picking-up and depositing [3]
C03B 35/14	1-Punkt Untergruppe	. Transporting hot glass sheets [3]
C03B 35/16	2-Punkt Untergruppe	. . by roller conveyers [3]
C03B 35/18	3-Punkt Untergruppe	. . . Construction of the conveyer rollers [3]
C03B 35/20	2-Punkt Untergruppe	. . by gripping tongs or supporting frames [3]
C03B 35/22	2-Punkt Untergruppe	. . on a fluid support bed, e.g. on molten metal [3]
C03B 35/24	3-Punkt Untergruppe	. . . on a gas support bed [3]
C03B 35/26	1-Punkt Untergruppe	. Transporting of glass tubes or rods [3]
C03B 37/00	Hauptgruppe	Manufacture or treatment of flakes, fibres, or filaments from softened glass, minerals, or slags
C03B 37/005	1-Punkt Untergruppe	. Manufacture of flakes [5]
C03B 37/01	1-Punkt Untergruppe	. Manufacture of glass fibres or filaments [3]
C03B 37/012	2-Punkt Untergruppe	. . Manufacture of preforms for drawing fibres or filaments [4]
C03B 37/014	3-Punkt Untergruppe	. . . made entirely or partially by chemical means [4]
C03B 37/016	4-Punkt Untergruppe	 by a liquid phase reaction process, e.g. through a gel phase [4]
C03B 37/018	4-Punkt Untergruppe	 by glass deposition on a glass substrate, e.g. by chemical vapour deposition (C03B 37/016 takes precedence; surface treatment of glass by coating with glass C03C 17/02) [4]
C03B 37/02	2-Punkt Untergruppe	. . by drawing or extruding (C03B 37/04 takes precedence) [3]
C03B 37/022	3-Punkt Untergruppe	. . . from molten glass in which the resultant product consists of different sorts of glass or is characterised by shape, e.g. hollow fibres [4]
C03B 37/023	4-Punkt Untergruppe	 Fibres composed of different sorts of glass, e.g. fibre optics [4]

Symbol	Typ	Titel
C03B 37/025	3-Punkt Untergruppe	. . . from reheated softened tubes, rods, fibres or filaments [3]
C03B 37/026	4-Punkt Untergruppe	 Drawing fibres reinforced with a metal wire [5]
C03B 37/027	4-Punkt Untergruppe	 Fibres composed of different sorts of glass, e.g. fibre optics (C03B 37/028 takes precedence) [4]
C03B 37/028	4-Punkt Untergruppe	 Drawing fibre bundles, e.g. for making fibre bundles of multifibres [4]
C03B 37/029	4-Punkt Untergruppe	 Furnaces therefor [5]
C03B 37/03	3-Punkt Untergruppe	. . . Drawing means, e.g. drawing drums [3]
C03B 37/035	4-Punkt Untergruppe	 having means for deflecting or stripping-off fibres [3]
C03B 37/04	2-Punkt Untergruppe	. . by using centrifugal force [3]
C03B 37/05	3-Punkt Untergruppe	. . . by projecting on a rotating body having no radial orifices [3]
C03B 37/06	2-Punkt Untergruppe	. . by blasting or blowing molten glass, e.g. for making staple fibres [3]
C03B 37/065	3-Punkt Untergruppe	. . . starting from tubes, rods, fibres, or filaments [3]
C03B 37/07	1-Punkt Untergruppe	. Controlling or regulating (controlling or regulating in general G05) [3]
C03B 37/075	1-Punkt Untergruppe	. Manufacture of fibres or filaments consisting of different sorts of glass or characterised by shape, e.g. hollow fibres, undulated fibres (C03B 37/022 , C03B 37/027 , C03B 37/028 take precedence; light guides G02B 6/00) [3, 4]
C03B 37/08	1-Punkt Untergruppe	. Bushings; Spinnerettes; Nozzles; Nozzle plates (nozzles in general B05B)
C03B 37/081	2-Punkt Untergruppe	. . Indirect-melting bushings [5]
C03B 37/083	2-Punkt Untergruppe	. . Nozzles; Bushing nozzle plates (C03B 37/095 takes precedence) [5]
C03B 37/085	2-Punkt Untergruppe	. . Feeding devices therefor [3]
C03B 37/09	2-Punkt Untergruppe	. . electrically heated [3]
C03B 37/092	3-Punkt Untergruppe	. . . Direct-resistance heating [5]
C03B 37/095	2-Punkt Untergruppe	. . Use of materials therefor [3]
C03B 37/10	1-Punkt Untergruppe	. Non-chemical treatment (C03C 25/00 takes precedence; yarns or threads D02; woven fabrics D03; non-woven fabrics D04)
C03B 37/12	2-Punkt Untergruppe	. . of fibres or filaments during winding up [3]
C03B 37/14	2-Punkt Untergruppe	. . Re-forming fibres or filaments (C03B 37/025 takes precedence) [3]
C03B 37/15	3-Punkt Untergruppe	. . . with heat application, e.g. for making optical fibres (fusion-splicing of light guides G02B 6/255; treatment of light guides to shape optical elements G02B 6/287) [5]
C03B 37/16	2-Punkt Untergruppe	. . Cutting or severing (light guides G02B 6/25) [3, 5]
C03B 40/00	Hauptgruppe	Preventing adhesion between glass and glass or between glass and the means used to shape it [3]
C03B 40/02	1-Punkt Untergruppe	. by lubrication; Use of materials as release or lubricating compositions [3]
C03B 40/027	2-Punkt Untergruppe	. . Apparatus for applying lubricants to glass shaping moulds or tools [5]
C03B 40/033	2-Punkt Untergruppe	. . Means for preventing adhesion between glass and glass [5]
C03B 40/04	1-Punkt Untergruppe	. using gas [3]