CPC COOPERATIVE PATENT CLASSIFICATION

C CHEMISTRY; METALLURGY

(NOTES omitted)

CHEMISTRY

C03 GLASS; MINERAL OR SLAG WOOL

C03B MANUFACTURE, SHAPING, OR SUPPLEMENTARY PROCESSES

WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

C03B 8/00 covered by <u>C03B 19/00, C03B 37/00</u>

C03B 8/02 covered by <u>C03B 19/1065</u>, <u>C03B 19/12</u>, <u>C03B 37/011</u>,

<u>C03B 37/016</u>

C03B 8/04 covered by C03B 19/106, C03B 19/14, C03B 37/014

2. 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

Melting the r	aw material	5/0338	{Rotary furnaces}
1/00	Preparing the batches (chemical compositions C03C)	5/04 5/05	 in tank furnaces {(C03B 5/02 takes precedence)} Discontinuously-working tank furnaces, e.g. day
1/02	• Compacting the glass batches, e.g. pelletising	5/06	tanks • in pot furnaces {(C03B 5/02 takes precedence)}
3/00	Charging the melting furnaces	5/08	Glass-melting pots
3/005	• {using screw feeders}	5/10	• in combined tank furnaces and pots {(C03B 5/02
3/02	combined with preheating, premelting or pretreating	5/10	takes precedence)}
2/022	the glass-making ingredients, pellets or cullet	5/12 5/14	 in shaft furnaces {(C03B 5/02 takes precedence)} in revolving cylindrical furnaces {(C03B 5/02 takes)
3/023 3/026	. {Preheating}. {by charging the ingredients into a flame, through	5/14	precedence)
3/020	a burner or equivalent heating means used to heat the melting furnace}	5/16	Special features of the melting process; Auxiliary means specially adapted for glass-melting furnaces
5/00	Melting in furnaces; Furnaces so far as specially adapted for glass manufacture	5/163	• • {Electrochemical treatments, e.g. to prevent bubbling or to create bubbles (C03B 5/1672,
5/005	• {of glass-forming waste materials (disposal or transformation of solid waste in general <u>B09B</u> ;	5/167	C03B 5/185 take precedence)} Means for preventing damage to equipment, e.g.
5/02	treatment of radioactive waste G21F 9/00)} • in electric furnaces {, e.g. by dielectric heating		by molten glass, hot gases, batches (<u>C03B 5/20</u> , <u>C03B 5/42</u> take precedence)
3/02	(electric heating in general <u>H05B</u>)}	5/1672	{Use of materials therefor}
5/021	• • {by induction heating}	5/1675 5/1677	 {Platinum group metals} {by use of electrochemically protection means,
5/023	• • {by microwave heating}	3/10//	e.g. passivation of electrodes}
5/025	• • {by arc discharge or plasma heating}	5/173	Apparatus for changing the composition of the
5/027	by passing an electric current between electrodes immersed in the glass bath, i.e. by direct		molten glass in glass furnaces, e.g. for colouring the molten glass (chemical aspects CO3C)
5/0272	resistance heating {Pot furnaces}	5/18	• • Stirring devices; Homogenisation {(mixing in
5/0272	• • • {Pot furnaces} • • • {Shaft furnaces (C03B 5/0277 takes	~ // O.	general <u>B01F</u>)}
3/02/3	precedence)}	5/182	 by moving the molten glass along fixed elements, e.g. deflectors, weirs, baffle plates
5/0277	• • • {Rotary furnaces}	5/183	using thermal means, e.g. for creating
5/03	Tank furnaces		convection currents
5/031	• • • {Cold top tank furnaces}	5/185	Electric means
5/033	by using resistance heaters above or in the glass	5/187	with moving elements
5/0332	bath, i.e. by indirect resistance heating	5/1875	• • • { of the screw or pump-action type}
5/0334	 {Tank furnaces} {Pot furnaces; Core furnaces}	5/193	using gas, e.g. bubblers
5/0336	• • • {Shaft furnaces; Co18 furnaces} • • • {Shaft furnaces (C03B 5/0338 takes	5/20	Bridges, shoes, throats, or other devices for Prince Pri
3/0330	precedence)}		withholding dirt, foam, or batch

Melting the raw material C03B

5/202	• • {Devices for blowing onto the melt surface, e.g. high momentum burners}	7/065	• • • {by combustion with pure oxygen or oxygen- enriched air}
5/205	{Mechanical means for skimming or scraping	7/07	Electric means
	the melt surface}	7/08	• Feeder spouts, e.g. gob feeders
5/207	• • • {Foraminous or mesh screens, e.g. submerged	7/082	Pneumatic feeders
	sieves}	7/084	Tube mechanisms
5/225	• Refining (C03B 5/18 takes precedence {;	7/086	Plunger mechanisms
	Refining agents C03C 1/004})	7/088	_
5/2252	• • • {under reduced pressure, e.g. with vacuum		. Outlets, e.g. orifice rings
0,2202	refiners}	7/09	Spout blocks
5/2255	• • • {by centrifuging}	7/092	• Stirring devices; Homogenisation (C03B 5/18
5/2257	• • {by centuraging} • • • {by thin-layer fining}	= 100.4	takes precedence)
		7/094	Means for heating, cooling or insulation
5/23	• Cooling the molten glass (C03B 5/18,	7/096	for heating
5 /2 2 5	C03B 5/225 take precedence)	7/098	electric
5/235	. Heating the glass (<u>C03B 5/02</u> , <u>C03B 5/18</u> ,	7/10	• Cutting-off {or severing} the glass flow with the
	C03B 5/225 take precedence)		aid of knives or scissors {or non-contacting cutting
	NOTE		means, e.g. a gas jet}; Construction of the blades
			used
	Devices for withholding dirt, foam, or batch	7/11	Construction of the blades
	are also classified in C03B 5/202	7/12	• Cutting-off {or severing} a free-hanging glass
5/2353	{by combustion with pure oxygen or oxygen-	7/12	stream {, e.g. by the combination of gravity and
3/2333	enriched air, e.g. using oxy-fuel burners or		surface tension forces}
		7/14	Transferring molten glass or gobs to glass blowing
5/0056	oxygen lances}	//14	or pressing machines (C03B 7/18 - C03B 7/22 take
5/2356	• • • {Submerged heating, e.g. by using heat pipes,		
	hot gas or submerged combustion burners	7/16	precedence)
	(bubblers <u>C03B 5/193</u>)}	7/16	• using deflector chutes
5/237	Regenerators or recuperators specially adapted	7/18	Suction feeders
	for glass-melting furnaces	7/20	. Scoop feeders
5/2375	• • • • {Regenerator brick design (brick shapes	7/22	 Gathering-devices in the form of rods or pipes
	in general <u>F27D 1/042</u>); Use of materials		
	therefore Brick stacking arrangements	Chaning of a	-laws (
	therefor; Brick stacking arrangements}	Snaping or g	glass (manufacture of fibres C03B 37/00)
5/24	Automatically regulating the melting process		
5/24 5/245		9/00	Blowing glass; Production of hollow glass articles
	Automatically regulating the melting process	9/00 9/02	Blowing glass; Production of hollow glass articles . with the mouth; Auxiliary means therefor
	 Automatically regulating the melting process {Regulating the melt or batch level, depth or thickness} 	9/00 9/02 9/03	Blowing glass; Production of hollow glass articles with the mouth; Auxiliary means thereforBlow pipes
5/245	 Automatically regulating the melting process {Regulating the melt or batch level, depth or thickness} Outlets {, e.g. drains, siphons}; Overflows {, e.g. 	9/00 9/02	Blowing glass; Production of hollow glass articles with the mouth; Auxiliary means thereforBlow pipesMaking hollow glass articles with feet or
5/245	 Automatically regulating the melting process {Regulating the melt or batch level, depth or thickness} Outlets {, e.g. drains, siphons}; Overflows {, e.g. for supplying the float tank, tweels} 	9/00 9/02 9/03 9/04	Blowing glass; Production of hollow glass articles with the mouth; Auxiliary means therefor Blow pipes Making hollow glass articles with feet or projections
5/245 5/26	 Automatically regulating the melting process {Regulating the melt or batch level, depth or thickness} Outlets {, e.g. drains, siphons}; Overflows {, e.g. for supplying the float tank, tweels} {Drains, i.e. means to dump glass melt or 	9/00 9/02 9/03	Blowing glass; Production of hollow glass articles with the mouth; Auxiliary means thereforBlow pipesMaking hollow glass articles with feet or
5/245 5/26 5/262	 Automatically regulating the melting process {Regulating the melt or batch level, depth or thickness} Outlets {, e.g. drains, siphons}; Overflows {, e.g. for supplying the float tank, tweels} {Drains, i.e. means to dump glass melt or remove unwanted materials} 	9/00 9/02 9/03 9/04 9/06	 Blowing glass; Production of hollow glass articles with the mouth; Auxiliary means therefor Blow pipes Making hollow glass articles with feet or projections Making hollow glass articles with double walls, e.g. vacuum flasks
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5/245 5/26 5/262 5/265 5/267	 Automatically regulating the melting process {Regulating the melt or batch level, depth or thickness} Outlets {, e.g. drains, siphons}; Overflows {, e.g. for supplying the float tank, tweels} {Drains, i.e. means to dump glass melt or remove unwanted materials} {Overflows; Lips; Tweels} {specially adapted for supplying the float tank} 	9/00 9/02 9/03 9/04 9/06	 Blowing glass; Production of hollow glass articles with the mouth; Auxiliary means therefor Blow pipes Making hollow glass articles with feet or projections Making hollow glass articles with double walls, e.g. vacuum flasks Finish-blowing with compressed air of blanks blown with the mouth
5/245 5/26 5/262 5/265 5/267 5/28	 Automatically regulating the melting process {Regulating the melt or batch level, depth or thickness} Outlets {, e.g. drains, siphons}; Overflows {, e.g. for supplying the float tank, tweels} {Drains, i.e. means to dump glass melt or remove unwanted materials} {Overflows; Lips; Tweels} {specially adapted for supplying the float tank} Siphons 	9/00 9/02 9/03 9/04 9/06 9/08	 Blowing glass; Production of hollow glass articles with the mouth; Auxiliary means therefor Blow pipes Making hollow glass articles with feet or projections Making hollow glass articles with double walls, e.g. vacuum flasks Finish-blowing with compressed air of blanks blown with the mouth Blowing glass cylinders for sheet manufacture
5/245 5/26 5/262 5/265 5/267	 Automatically regulating the melting process {Regulating the melt or batch level, depth or thickness} Outlets {, e.g. drains, siphons}; Overflows {, e.g. for supplying the float tank, tweels} {Drains, i.e. means to dump glass melt or remove unwanted materials} {Overflows; Lips; Tweels} {specially adapted for supplying the float tank} Siphons Details of construction of furnace walls, e.g. to 	9/00 9/02 9/03 9/04 9/06 9/08 9/10 9/12	 Blowing glass; Production of hollow glass articles with the mouth; Auxiliary means therefor Blow pipes Making hollow glass articles with feet or projections Making hollow glass articles with double walls, e.g. vacuum flasks Finish-blowing with compressed air of blanks blown with the mouth Blowing glass cylinders for sheet manufacture starting from a ribbon of glass; Ribbon machines
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5/245 5/26 5/262 5/265 5/267 5/28 5/42 5/425 5/43	 Automatically regulating the melting process {Regulating the melt or batch level, depth or thickness} Outlets {, e.g. drains, siphons}; Overflows {, e.g. for supplying the float tank, tweels} {Drains, i.e. means to dump glass melt or remove unwanted materials} {Overflows; Lips; Tweels} {specially adapted for supplying the float tank} Siphons Details of construction of furnace walls, e.g. to prevent corrosion; Use of materials for furnace walls Preventing corrosion or erosion (C03B 5/44 takes precedence) Use of materials for furnace walls, e.g. fire-bricks 	9/00 9/02 9/03 9/04 9/06 9/08 9/10 9/12 9/13 9/14	 Blowing glass; Production of hollow glass articles with the mouth; Auxiliary means therefor Blow pipes Making hollow glass articles with feet or projections Making hollow glass articles with double walls, e.g. vacuum flasks Finish-blowing with compressed air of blanks blown with the mouth Blowing glass cylinders for sheet manufacture starting from a ribbon of glass; Ribbon machines in gob feeder machines (C03B 9/28, C03B 9/29 take precedence) in "blow" machines or in "blow-and-blow" machines (C03B 9/193, C03B 9/20 take precedence) {Details of machines without turn-over moulds}
5/245 5/26 5/262 5/265 5/267 5/28 5/42 5/425 5/435	 Automatically regulating the melting process {Regulating the melt or batch level, depth or thickness} Outlets {, e.g. drains, siphons}; Overflows {, e.g. for supplying the float tank, tweels} {Drains, i.e. means to dump glass melt or remove unwanted materials} {Overflows; Lips; Tweels} {specially adapted for supplying the float tank} Siphons Details of construction of furnace walls, e.g. to prevent corrosion; Use of materials for furnace walls Preventing corrosion or erosion (C03B 5/44 takes precedence) Use of materials for furnace walls, e.g. firebricks Heating arrangements for furnace walls 	9/00 9/02 9/03 9/04 9/06 9/08 9/10 9/12 9/13	 Blowing glass; Production of hollow glass articles with the mouth; Auxiliary means therefor Blow pipes Making hollow glass articles with feet or projections Making hollow glass articles with double walls, e.g. vacuum flasks Finish-blowing with compressed air of blanks blown with the mouth Blowing glass cylinders for sheet manufacture starting from a ribbon of glass; Ribbon machines in gob feeder machines (C03B 9/28, C03B 9/29 take precedence) in "blow" machines or in "blow-and-blow" machines (C03B 9/193, C03B 9/20 take precedence) {Details of machines without turn-over moulds} in machines with turn-over moulds
5/245 5/26 5/262 5/265 5/267 5/28 5/42 5/425 5/435 5/444	 Automatically regulating the melting process {Regulating the melt or batch level, depth or thickness} Outlets {, e.g. drains, siphons}; Overflows {, e.g. for supplying the float tank, tweels} {Drains, i.e. means to dump glass melt or remove unwanted materials} {Overflows; Lips; Tweels} {specially adapted for supplying the float tank} Siphons Details of construction of furnace walls, e.g. to prevent corrosion; Use of materials for furnace walls Preventing corrosion or erosion (C03B 5/44 takes precedence) Use of materials for furnace walls, e.g. firebricks Heating arrangements for furnace walls Cooling arrangements for furnace walls 	9/00 9/02 9/03 9/04 9/06 9/08 9/10 9/12 9/13 9/14	 Blowing glass; Production of hollow glass articles with the mouth; Auxiliary means therefor Blow pipes Making hollow glass articles with feet or projections Making hollow glass articles with double walls, e.g. vacuum flasks Finish-blowing with compressed air of blanks blown with the mouth Blowing glass cylinders for sheet manufacture starting from a ribbon of glass; Ribbon machines in gob feeder machines (C03B 9/28, C03B 9/29 take precedence) in "blow" machines or in "blow-and-blow" machines (C03B 9/193, C03B 9/20 take precedence) {Details of machines without turn-over moulds} in machines with turn-over moulds {Details of such machines, e.g. guide
5/245 5/26 5/262 5/265 5/267 5/28 5/42 5/425 5/435	 Automatically regulating the melting process {Regulating the melt or batch level, depth or thickness} Outlets {, e.g. drains, siphons}; Overflows {, e.g. for supplying the float tank, tweels} {Drains, i.e. means to dump glass melt or remove unwanted materials} {Overflows; Lips; Tweels} { specially adapted for supplying the float tank} Siphons Details of construction of furnace walls, e.g. to prevent corrosion; Use of materials for furnace walls Preventing corrosion or erosion (C03B 5/44 takes precedence) Use of materials for furnace walls, e.g. firebricks Heating arrangements for furnace walls Cooling arrangements for furnace walls Distributors for the molten glass; Means for 	9/00 9/02 9/03 9/04 9/06 9/08 9/10 9/12 9/13 9/14 9/145	 Blowing glass; Production of hollow glass articles with the mouth; Auxiliary means therefor Blow pipes Making hollow glass articles with feet or projections Making hollow glass articles with double walls, e.g. vacuum flasks Finish-blowing with compressed air of blanks blown with the mouth Blowing glass cylinders for sheet manufacture starting from a ribbon of glass; Ribbon machines in gob feeder machines (C03B 9/28, C03B 9/29 take precedence) in "blow" machines or in "blow-and-blow" machines (C03B 9/193, C03B 9/20 take precedence) {Details of machines without turn-over moulds} in machines with turn-over moulds {Details of such machines, e.g. guide funnels, turn-over mechanisms (C03B 9/18
5/245 5/26 5/262 5/265 5/267 5/28 5/42 5/425 5/435 5/444	 Automatically regulating the melting process {Regulating the melt or batch level, depth or thickness} Outlets {, e.g. drains, siphons}; Overflows {, e.g. for supplying the float tank, tweels} {Drains, i.e. means to dump glass melt or remove unwanted materials} {Overflows; Lips; Tweels} {specially adapted for supplying the float tank} Siphons Details of construction of furnace walls, e.g. to prevent corrosion; Use of materials for furnace walls Preventing corrosion or erosion (C03B 5/44 takes precedence) Use of materials for furnace walls, e.g. firebricks Heating arrangements for furnace walls Cooling arrangements for furnace walls 	9/00 9/02 9/03 9/04 9/06 9/08 9/10 9/12 9/13 9/14 9/145	 Blowing glass; Production of hollow glass articles with the mouth; Auxiliary means therefor Blow pipes Making hollow glass articles with feet or projections Making hollow glass articles with double walls, e.g. vacuum flasks Finish-blowing with compressed air of blanks blown with the mouth Blowing glass cylinders for sheet manufacture starting from a ribbon of glass; Ribbon machines in gob feeder machines (C03B 9/28, C03B 9/29 take precedence) in "blow" machines or in "blow-and-blow" machines (C03B 9/193, C03B 9/20 take precedence) {Details of machines without turn-over moulds} in machines with turn-over moulds {Details of such machines, e.g. guide
5/245 5/26 5/262 5/265 5/267 5/28 5/42 5/425 5/435 5/444	 Automatically regulating the melting process {Regulating the melt or batch level, depth or thickness} Outlets {, e.g. drains, siphons}; Overflows {, e.g. for supplying the float tank, tweels} {Drains, i.e. means to dump glass melt or remove unwanted materials} {Overflows; Lips; Tweels} { specially adapted for supplying the float tank} Siphons Details of construction of furnace walls, e.g. to prevent corrosion; Use of materials for furnace walls Preventing corrosion or erosion (C03B 5/44 takes precedence) Use of materials for furnace walls, e.g. firebricks Heating arrangements for furnace walls Cooling arrangements for furnace walls Cooling arrangements for furnace walls 	9/00 9/02 9/03 9/04 9/06 9/08 9/10 9/12 9/13 9/14 9/145	 Blowing glass; Production of hollow glass articles with the mouth; Auxiliary means therefor Blow pipes Making hollow glass articles with feet or projections Making hollow glass articles with double walls, e.g. vacuum flasks Finish-blowing with compressed air of blanks blown with the mouth Blowing glass cylinders for sheet manufacture starting from a ribbon of glass; Ribbon machines in gob feeder machines (C03B 9/28, C03B 9/29 take precedence) in "blow" machines or in "blow-and-blow" machines (C03B 9/193, C03B 9/20 take precedence) {Details of machines without turn-over moulds} in machines with turn-over moulds {Details of such machines, e.g. guide funnels, turn-over mechanisms (C03B 9/18
5/245 5/26 5/262 5/265 5/267 5/28 5/42 5/425 5/435 5/444	 Automatically regulating the melting process {Regulating the melt or batch level, depth or thickness} Outlets {, e.g. drains, siphons}; Overflows {, e.g. for supplying the float tank, tweels} {Drains, i.e. means to dump glass melt or remove unwanted materials} {Overflows; Lips; Tweels} { specially adapted for supplying the float tank} Siphons Details of construction of furnace walls, e.g. to prevent corrosion; Use of materials for furnace walls Preventing corrosion or erosion (C03B 5/44 takes precedence) Use of materials for furnace walls, e.g. firebricks Heating arrangements for furnace walls Cooling arrangements for furnace walls Cooling arrangements for furnace walls 	9/00 9/02 9/03 9/04 9/06 9/08 9/10 9/12 9/13 9/14 9/145 9/165	Blowing glass; Production of hollow glass articles with the mouth; Auxiliary means therefor Blow pipes Making hollow glass articles with feet or projections Making hollow glass articles with double walls, e.g. vacuum flasks Finish-blowing with compressed air of blanks blown with the mouth Blowing glass cylinders for sheet manufacture starting from a ribbon of glass; Ribbon machines in gob feeder machines (C03B 9/28, C03B 9/29 take precedence) in "blow" machines or in "blow-and-blow" machines (C03B 9/193, C03B 9/20 take precedence) Fletails of machines without turn-over moulds Fletails of such machines, e.g. guide funnels, turn-over mechanisms (C03B 9/18 takes precedence)} Rotary-table machines
5/245 5/26 5/262 5/265 5/267 5/28 5/42 5/425 5/435 5/444	 Automatically regulating the melting process {Regulating the melt or batch level, depth or thickness} Outlets {, e.g. drains, siphons}; Overflows {, e.g. for supplying the float tank, tweels} {Drains, i.e. means to dump glass melt or remove unwanted materials} {Overflows; Lips; Tweels} { specially adapted for supplying the float tank} Siphons Details of construction of furnace walls, e.g. to prevent corrosion; Use of materials for furnace walls Preventing corrosion or erosion (C03B 5/44 takes precedence) Use of materials for furnace walls, e.g. firebricks Heating arrangements for furnace walls Cooling arrangements for furnace walls Cooling arrangements for furnace walls 	9/00 9/02 9/03 9/04 9/06 9/08 9/10 9/12 9/13 9/14 9/145 9/165	Blowing glass; Production of hollow glass articles with the mouth; Auxiliary means therefor Blow pipes Making hollow glass articles with feet or projections Making hollow glass articles with double walls, e.g. vacuum flasks Finish-blowing with compressed air of blanks blown with the mouth Blowing glass cylinders for sheet manufacture starting from a ribbon of glass; Ribbon machines in gob feeder machines (C03B 9/28, C03B 9/29 take precedence) in "blow" machines or in "blow-and-blow" machines (C03B 9/193, C03B 9/20 take precedence) Floatils of machines without turn-over moulds Petails of such machines, e.g. guide funnels, turn-over mechanisms (C03B 9/18 takes precedence)} Rotary-table machines Having at least two rotary tables
5/245 5/26 5/262 5/265 5/267 5/28 5/42 5/425 5/43 5/435 5/44 7/00	 Automatically regulating the melting process {Regulating the melt or batch level, depth or thickness} Outlets {, e.g. drains, siphons}; Overflows {, e.g. for supplying the float tank, tweels} {Drains, i.e. means to dump glass melt or remove unwanted materials} {Overflows; Lips; Tweels} { specially adapted for supplying the float tank} Siphons Details of construction of furnace walls, e.g. to prevent corrosion; Use of materials for furnace walls Preventing corrosion or erosion (C03B 5/44 takes precedence) Use of materials for furnace walls, e.g. firebricks Heating arrangements for furnace walls Cooling arrangements for furnace walls Cooling arrangements for furnace walls Cooling the molten glass; Means for taking-off charges of molten glass; Producing the gob {, e.g. controlling the gob shape, weight or delivery tact} {Controlling, regulating or measuring} 	9/00 9/02 9/03 9/04 9/06 9/08 9/10 9/12 9/13 9/14 9/145 9/165 9/16 9/185 9/19	Blowing glass; Production of hollow glass articles with the mouth; Auxiliary means therefor Blow pipes Making hollow glass articles with feet or projections Making hollow glass articles with double walls, e.g. vacuum flasks Finish-blowing with compressed air of blanks blown with the mouth Blowing glass cylinders for sheet manufacture starting from a ribbon of glass; Ribbon machines in gob feeder machines (C03B 9/28, C03B 9/29 take precedence) in "blow" machines or in "blow-and-blow" machines (C03B 9/193, C03B 9/20 take precedence) Floetails of machines without turn-over moulds in machines with turn-over moulds Floetails of such machines, e.g. guide funnels, turn-over mechanisms (C03B 9/18 takes precedence)} Rotary-table machines Having at least two rotary tables having only one rotary table
5/245 5/26 5/262 5/265 5/267 5/28 5/42 5/425 5/43 5/435 5/44 7/00	 Automatically regulating the melting process {Regulating the melt or batch level, depth or thickness} Outlets {, e.g. drains, siphons}; Overflows {, e.g. for supplying the float tank, tweels} {Drains, i.e. means to dump glass melt or remove unwanted materials} {Overflows; Lips; Tweels} {specially adapted for supplying the float tank} Siphons Details of construction of furnace walls, e.g. to prevent corrosion; Use of materials for furnace walls Preventing corrosion or erosion (C03B 5/44 takes precedence) Use of materials for furnace walls, e.g. firebricks Heating arrangements for furnace walls Cooling arrangements for furnace walls Cooling arrangements for furnace walls Controlling, regulating or measuring} Means for taking-off charges of molten glass 	9/00 9/02 9/03 9/04 9/06 9/08 9/10 9/12 9/13 9/14 9/145 9/165 9/16 9/165	Blowing glass; Production of hollow glass articles with the mouth; Auxiliary means therefor Blow pipes Making hollow glass articles with feet or projections Making hollow glass articles with double walls, e.g. vacuum flasks Finish-blowing with compressed air of blanks blown with the mouth Blowing glass cylinders for sheet manufacture starting from a ribbon of glass; Ribbon machines in gob feeder machines (C03B 9/28, C03B 9/29 take precedence) in "blow" machines or in "blow-and-blow" machines (C03B 9/193, C03B 9/20 take precedence) Floetails of machines without turn-over moulds in machines with turn-over moulds Floetails of such machines, e.g. guide funnels, turn-over mechanisms (C03B 9/18 takes precedence)} Rotary-table machines Rotary-table machines having at least two rotary tables having only one rotary table in "press-and-blow" machines
5/245 5/26 5/262 5/265 5/267 5/28 5/42 5/425 5/43 5/435 5/44 7/00	 Automatically regulating the melting process {Regulating the melt or batch level, depth or thickness} Outlets {, e.g. drains, siphons}; Overflows {, e.g. for supplying the float tank, tweels} {Drains, i.e. means to dump glass melt or remove unwanted materials} {Overflows; Lips; Tweels} { specially adapted for supplying the float tank} Siphons Details of construction of furnace walls, e.g. to prevent corrosion; Use of materials for furnace walls Preventing corrosion or erosion (C03B 5/44 takes precedence) Use of materials for furnace walls, e.g. firebricks Heating arrangements for furnace walls Cooling arrangements for furnace walls Cooling arrangements for furnace walls (Cooling the molten glass; Means for taking-off charges of molten glass; Producing the gob {, e.g. controlling the gob shape, weight or delivery tact} {Controlling, regulating or measuring} Means for taking-off charges of molten glass {(C03B 7/08, C03B 7/14 - C03B 7/22 take 	9/00 9/02 9/03 9/04 9/06 9/08 9/10 9/12 9/13 9/14 9/145 9/165 9/16 9/185 9/19	Blowing glass; Production of hollow glass articles with the mouth; Auxiliary means therefor Blow pipes Making hollow glass articles with feet or projections Making hollow glass articles with double walls, e.g. vacuum flasks Finish-blowing with compressed air of blanks blown with the mouth Blowing glass cylinders for sheet manufacture starting from a ribbon of glass; Ribbon machines in gob feeder machines (C03B 9/28, C03B 9/29 take precedence) in "blow" machines or in "blow-and-blow" machines (C03B 9/193, C03B 9/20 take precedence) Floetails of machines without turn-over moulds in machines with turn-over moulds Floetails of such machines, e.g. guide funnels, turn-over mechanisms (C03B 9/18 takes precedence)} Rotary-table machines Rotary-table machines Having at least two rotary tables having only one rotary table in "press-and-blow" machines Eleasing or plungers or
5/245 5/26 5/262 5/265 5/267 5/28 5/425 5/435 5/435 5/44 7/00 7/005 7/01	 Automatically regulating the melting process {Regulating the melt or batch level, depth or thickness} Outlets {, e.g. drains, siphons}; Overflows {, e.g. for supplying the float tank, tweels} {Drains, i.e. means to dump glass melt or remove unwanted materials} {Overflows; Lips; Tweels} { specially adapted for supplying the float tank} Siphons Details of construction of furnace walls, e.g. to prevent corrosion; Use of materials for furnace walls Preventing corrosion or erosion (C03B 5/44 takes precedence) Use of materials for furnace walls, e.g. firebricks Heating arrangements for furnace walls Cooling arrangements for furnace walls Cooling arrangements for furnace walls Controlling, regulating or measuring} Means for taking-off charges of molten glass {(C03B 7/08, C03B 7/14 - C03B 7/22 take precedence)} 	9/00 9/02 9/03 9/04 9/06 9/08 9/10 9/12 9/13 9/14 9/145 9/165 9/16 9/165	Blowing glass; Production of hollow glass articles with the mouth; Auxiliary means therefor Blow pipes Making hollow glass articles with feet or projections Making hollow glass articles with double walls, e.g. vacuum flasks Finish-blowing with compressed air of blanks blown with the mouth Blowing glass cylinders for sheet manufacture starting from a ribbon of glass; Ribbon machines in gob feeder machines (C03B 9/28, C03B 9/29 take precedence) in "blow" machines or in "blow-and-blow" machines (C03B 9/193, C03B 9/20 take precedence) Floatilis of machines without turn-over moulds in machines with turn-over moulds Floatilis of such machines, e.g. guide funnels, turn-over mechanisms (C03B 9/18 takes precedence)} Rotary-table machines Rotary-table machines Having at least two rotary tables having only one rotary table in "press-and-blow" machines, e.g. plungers or plunger mechanisms for the press-and-blow
5/245 5/26 5/262 5/265 5/267 5/28 5/42 5/425 5/435 5/44 7/00 7/005 7/01	 Automatically regulating the melting process {Regulating the melt or batch level, depth or thickness} Outlets {, e.g. drains, siphons}; Overflows {, e.g. for supplying the float tank, tweels} {Drains, i.e. means to dump glass melt or remove unwanted materials} {Overflows; Lips; Tweels} { specially adapted for supplying the float tank} Siphons Details of construction of furnace walls, e.g. to prevent corrosion; Use of materials for furnace walls Preventing corrosion or erosion (C03B 5/44 takes precedence) Use of materials for furnace walls, e.g. firebricks Heating arrangements for furnace walls Cooling arrangements for furnace walls (Controlling, regulating or measuring) Means for taking-off charges of molten glass {(C03B 7/08, C03B 7/14 - C03B 7/22 take precedence)} Forehearths, i.e. feeder channels 	9/00 9/02 9/03 9/04 9/06 9/08 9/10 9/12 9/13 9/14 9/145 9/165 9/16 9/165	Blowing glass; Production of hollow glass articles with the mouth; Auxiliary means therefor Blow pipes Making hollow glass articles with feet or projections Making hollow glass articles with double walls, e.g. vacuum flasks Finish-blowing with compressed air of blanks blown with the mouth Blowing glass cylinders for sheet manufacture starting from a ribbon of glass; Ribbon machines in gob feeder machines (C03B 9/28, C03B 9/29 take precedence) in "blow" machines or in "blow-and-blow" machines (C03B 9/193, C03B 9/20 take precedence) Floatils of machines without turn-over moulds Floatils of such machines, e.g. guide funnels, turn-over mechanisms (C03B 9/18 takes precedence)} Rotary-table machines Rotary-table machines Having at least two rotary tables having only one rotary table in "press-and-blow" machines Floatils of such machines, e.g. plungers or plunger mechanisms for the press-and-blow machine, cooling of plungers (C03B 9/195)
5/245 5/26 5/262 5/265 5/267 5/28 5/425 5/435 5/435 5/44 7/00 7/005 7/01	 Automatically regulating the melting process {Regulating the melt or batch level, depth or thickness} Outlets {, e.g. drains, siphons}; Overflows {, e.g. for supplying the float tank, tweels} {Drains, i.e. means to dump glass melt or remove unwanted materials} {Overflows; Lips; Tweels} {Siphons Details of construction of furnace walls, e.g. to prevent corrosion; Use of materials for furnace walls Preventing corrosion or erosion (C03B 5/44 takes precedence) Use of materials for furnace walls Heating arrangements for furnace walls Cooling arrangements for furnace walls Cooling arrangements for furnace walls (Controlling, regulating or measuring) Means for taking-off charges of molten glass {(C03B 7/08, C03B 7/14 - C03B 7/22 take precedence)} Forehearths, i.e. feeder channels Revolving forehearths 	9/00 9/02 9/03 9/04 9/06 9/08 9/10 9/12 9/13 9/14 9/145 9/16 9/165 9/18 9/185 9/19 9/193 9/1932	Blowing glass; Production of hollow glass articles with the mouth; Auxiliary means therefor Blow pipes Making hollow glass articles with feet or projections Making hollow glass articles with double walls, e.g. vacuum flasks Finish-blowing with compressed air of blanks blown with the mouth Blowing glass cylinders for sheet manufacture starting from a ribbon of glass; Ribbon machines in gob feeder machines (C03B 9/28, C03B 9/29 take precedence) in "blow" machines or in "blow-and-blow" machines (C03B 9/193, C03B 9/20 take precedence) Petails of machines without turn-over moulds Petails of such machines, e.g. guide funnels, turn-over mechanisms (C03B 9/18 takes precedence)} Rotary-table machines Rotary-table machines Auxing only one rotary tables Auxing only one rotary table having at least two rotary tables having only one rotary table funger mechanisms for the press-and-blow machine, cooling of plungers (C03B 9/195 takes precedence)}
5/245 5/26 5/262 5/265 5/267 5/28 5/42 5/425 5/435 5/44 7/00 7/005 7/01	 Automatically regulating the melting process {Regulating the melt or batch level, depth or thickness} Outlets {, e.g. drains, siphons}; Overflows {, e.g. for supplying the float tank, tweels} {Drains, i.e. means to dump glass melt or remove unwanted materials} {Overflows; Lips; Tweels} { specially adapted for supplying the float tank} Siphons Details of construction of furnace walls, e.g. to prevent corrosion; Use of materials for furnace walls Preventing corrosion or erosion (C03B 5/44 takes precedence) Use of materials for furnace walls, e.g. firebricks Heating arrangements for furnace walls Cooling arrangements for furnace walls (Controlling, regulating or measuring) Means for taking-off charges of molten glass {(C03B 7/08, C03B 7/14 - C03B 7/22 take precedence)} Forehearths, i.e. feeder channels 	9/00 9/02 9/03 9/04 9/06 9/08 9/10 9/12 9/13 9/14 9/145 9/165 9/16 9/165	Blowing glass; Production of hollow glass articles with the mouth; Auxiliary means therefor Blow pipes Making hollow glass articles with feet or projections Making hollow glass articles with double walls, e.g. vacuum flasks Finish-blowing with compressed air of blanks blown with the mouth Blowing glass cylinders for sheet manufacture starting from a ribbon of glass; Ribbon machines in gob feeder machines (C03B 9/28, C03B 9/29 take precedence) in "blow" machines or in "blow-and-blow" machines (C03B 9/193, C03B 9/20 take precedence) Floatils of machines without turn-over moulds Floatils of such machines, e.g. guide funnels, turn-over mechanisms (C03B 9/18 takes precedence)} Rotary-table machines Rotary-table machines Rotary-table machines Anving at least two rotary tables having only one rotary table in "press-and-blow" machines Details of such machines, e.g. plungers or plunger mechanisms for the press-and-blow machine, cooling of plungers (C03B 9/195)

9/1936	• • • • {Hydraulic or pneumatic displacement	9/369	• • • {Details thereof relating to bottom forming}
	means of the plunger}	9/38	• • Means for cooling, heating, or insulating glass-
9/1938	• • • Electrical means for the displacement of the		blowing machines {or for cooling the glass
	plunger}		moulded by the machine}
9/195	Rotary-table machines	9/3808	• • • {Selection or characteristics of the cooling,
9/1955	• • • {having at least two rotary tables}		heating or insulating medium, e.g. gas
9/197	Construction of the blank mould	0.004	composition, moisture content, cryogenic state}
9/20	in "vacuum blowing" or in "vacuum-and-blow"	9/3816	• • • {Means for general supply, distribution or
	machines		control of the medium to the mould, e.g.
9/22	Rotary-table machines	0/2025	sensors, circuits, distribution networks}
9/225	• • • {having at least two rotary tables}	9/3825	• • • {Details thereof relating to plungers}
9/24	Construction of the blank mould	9/3833	• • • {Details thereof relating to neck moulds}
9/28	• in machines of the endless-chain type (<u>C03B 9/12</u>	9/3841	• • • {Details thereof relating to direct cooling,
	takes precedence)	0/295	heating or insulating of the moulded glass} {using a tube for cooling or heating the
9/29	• Paste mould machines (<u>C03B 9/28</u> takes	9/385	inside, e.g. blowheads}
	precedence)	9/3858	• • • • {Movable tubes}
9/292	• • {Details of such machines (<u>C03B 9/295</u> takes	9/3866	 {Movable tubes} {Details thereof relating to bottom moulds, e.g.
0.420.7	precedence)}	9/3600	baffles}
9/295	Rotary-table machines	9/3875	• • {Details thereof relating to the side-wall, body
9/2955	• • • {having at least two rotary tables}	9/30/3	or main part of the moulds}
9/30	• Details of blowing glass (for blowing with the	9/3883	• • • {Air delivery thereto, e.g. plenum, piping}
	mouth <u>C03B 9/02</u>); Use of materials for the moulds	9/3891	• • • {An derivery thereto, e.g. pientini, piping} • • • {Manifolds or regulating devices, e.g. valves,
9/31	Blowing laminated glass articles or glass with	9/3091	injectors}
0.424	enclosures, e.g. wires, bubbles	9/40	Gearing or controlling mechanisms specially
9/32	Giving special shapes to parts of hollow glass	<i>)</i> /40	adapted for glass-blowing machines
0./22.5	articles	9/403	{Hydraulic or pneumatic systems}
9/325	Forming screw-threads or lips at the mouth of	9/406	{Manifolds or regulating devices, e.g.
0/22	hollow glass articles; Neck moulds	2/400	valves}
9/33	Making hollow glass articles with feet or	9/41	Electric or electronic systems (in general
0/225	projections; Moulds therefor Forming bottoms to blown hollow glass	<i>J</i> / 11	G05B 19/00)
9/335	articles; Bottom moulds	9/42	Means for fusing, burning-off, or edge-melting
9/34	Glass-blowing moulds not otherwise provided for		combined with glass-blowing machines (uniting
	• • Glass-blowing inoulds not otherwise provided for		
			glass pieces by fusing C03B 23/20)
9/342	• • {Neck moulds (<u>C03B 9/325</u> takes precedence)}	9/44	glass pieces by fusing C03B 23/20) . Means for discharging combined with glass-
	 {Neck moulds (<u>C03B 9/325</u> takes precedence)} {Bottom moulds (<u>C03B 9/335</u> takes 	9/44	
9/342 9/344	 • {Neck moulds (<u>C03B 9/325</u> takes precedence)} • {Bottom moulds (<u>C03B 9/335</u> takes precedence)} 	9/44 9/447	Means for discharging combined with glass-
9/342 9/344 9/347	 . • {Neck moulds (C03B 9/325 takes precedence)} . • {Bottom moulds (C03B 9/335 takes precedence)} . • Construction of the blank or blow mould 		• • Means for discharging combined with glass- blowing machines, e.g. take-outs
9/342 9/344	 . • {Neck moulds (C03B 9/325 takes precedence)} . • {Bottom moulds (C03B 9/335 takes precedence)} . • Construction of the blank or blow mould . • Mould holders {; Mould opening and closing 		 . Means for discharging combined with glass-blowing machines, e.g. take-outs . Means for the removal of glass articles from
9/342 9/344 9/347 9/353	 . • {Neck moulds (C03B 9/325 takes precedence)} . • {Bottom moulds (C03B 9/335 takes precedence)} . • Construction of the blank or blow mould . • Mould holders {; Mould opening and closing mechanisms} 	9/447	 . Means for discharging combined with glass-blowing machines, e.g. take-outs . Means for the removal of glass articles from the blow-mould, e.g. take-outs . Means for pushing newly formed glass articles onto a conveyor, e.g. sweep-out mechanisms;
9/342 9/344 9/347	 {Neck moulds (C03B 9/325 takes precedence)} {Bottom moulds (C03B 9/335 takes precedence)} Construction of the blank or blow mould Mould holders {; Mould opening and closing mechanisms} {Mechanisms for holders of half moulds 	9/447 9/453	 Means for discharging combined with glass-blowing machines, e.g. take-outs Means for the removal of glass articles from the blow-mould, e.g. take-outs Means for pushing newly formed glass articles onto a conveyor, e.g. sweep-out mechanisms; Dead-plate mechanisms
9/342 9/344 9/347 9/353	 . • {Neck moulds (C03B 9/325 takes precedence)} . • {Bottom moulds (C03B 9/335 takes precedence)} . • Construction of the blank or blow mould . • Mould holders {; Mould opening and closing mechanisms} 	9/447 9/453 9/4535	 . Means for discharging combined with glass-blowing machines, e.g. take-outs . Means for the removal of glass articles from the blow-mould, e.g. take-outs . Means for pushing newly formed glass articles onto a conveyor, e.g. sweep-out mechanisms; Dead-plate mechanisms {Dead-plate mechanisms}
9/342 9/344 9/347 9/353	 {Neck moulds (C03B 9/325 takes precedence)} {Bottom moulds (C03B 9/335 takes precedence)} Construction of the blank or blow mould Mould holders {; Mould opening and closing mechanisms} {Mechanisms for holders of half moulds moving by rotation about a common vertical axis} 	9/447 9/453	 . Means for discharging combined with glass-blowing machines, e.g. take-outs . Means for the removal of glass articles from the blow-mould, e.g. take-outs . Means for pushing newly formed glass articles onto a conveyor, e.g. sweep-out mechanisms; Dead-plate mechanisms {Dead-plate mechanisms} . Means for cutting the hot glass in glass-blowing
9/342 9/344 9/347 9/353 9/3532	 {Neck moulds (C03B 9/325 takes precedence)} {Bottom moulds (C03B 9/335 takes precedence)} Construction of the blank or blow mould Mould holders {; Mould opening and closing mechanisms} {Mechanisms for holders of half moulds moving by rotation about a common vertical axis} {with the half moulds parallel upon 	9/447 9/453 9/4535 9/46	 Means for discharging combined with glass-blowing machines, e.g. take-outs Means for the removal of glass articles from the blow-mould, e.g. take-outs Means for pushing newly formed glass articles onto a conveyor, e.g. sweep-out mechanisms; Dead-plate mechanisms [Dead-plate mechanisms] Means for cutting the hot glass in glass-blowing machines (burning-off CO3B 9/42)
9/342 9/344 9/347 9/353 9/3532	 {Neck moulds (C03B 9/325 takes precedence)} {Bottom moulds (C03B 9/335 takes precedence)} Construction of the blank or blow mould Mould holders {; Mould opening and closing mechanisms} {Mechanisms for holders of half moulds moving by rotation about a common vertical axis} 	9/447 9/453 9/4535	 . Means for discharging combined with glass-blowing machines, e.g. take-outs . Means for the removal of glass articles from the blow-mould, e.g. take-outs . Means for pushing newly formed glass articles onto a conveyor, e.g. sweep-out mechanisms; Dead-plate mechanisms {Dead-plate mechanisms} . Means for cutting the hot glass in glass-blowing
9/342 9/344 9/347 9/353 9/3532	 {Neck moulds (C03B 9/325 takes precedence)} {Bottom moulds (C03B 9/335 takes precedence)} Construction of the blank or blow mould Mould holders {; Mould opening and closing mechanisms} {Mechanisms for holders of half moulds moving by rotation about a common vertical axis} {with the half moulds parallel upon opening and closing} 	9/447 9/453 9/4535 9/46 9/48	 Means for discharging combined with glass-blowing machines, e.g. take-outs Means for the removal of glass articles from the blow-mould, e.g. take-outs Means for pushing newly formed glass articles onto a conveyor, e.g. sweep-out mechanisms; Dead-plate mechanisms {Dead-plate mechanisms} Means for cutting the hot glass in glass-blowing machines (burning-off C03B 9/42) Use of materials for the moulds
9/342 9/344 9/347 9/353 9/3532	 {Neck moulds (C03B 9/325 takes precedence)} {Bottom moulds (C03B 9/335 takes precedence)} Construction of the blank or blow mould Mould holders {; Mould opening and closing mechanisms} {Mechanisms for holders of half moulds moving by rotation about a common vertical axis} {with the half moulds parallel upon opening and closing} {Mechanisms for holders of half moulds 	9/447 9/453 9/4535 9/46	 . Means for discharging combined with glass-blowing machines, e.g. take-outs . Means for the removal of glass articles from the blow-mould, e.g. take-outs . Means for pushing newly formed glass articles onto a conveyor, e.g. sweep-out mechanisms; Dead-plate mechanisms . {Dead-plate mechanisms} . Means for cutting the hot glass in glass-blowing machines (burning-off C03B 9/42) . Use of materials for the moulds Pressing {molten} glass {or performed glass
9/342 9/344 9/347 9/353 9/3532 9/3535 9/3537	 {Neck moulds (C03B 9/325 takes precedence)} {Bottom moulds (C03B 9/335 takes precedence)} Construction of the blank or blow mould Mould holders {; Mould opening and closing mechanisms} {Mechanisms for holders of half moulds moving by rotation about a common vertical axis} { with the half moulds parallel upon opening and closing} {Mechanisms for holders of half moulds moving by linear translation} 	9/447 9/453 9/4535 9/46 9/48	 . Means for discharging combined with glass-blowing machines, e.g. take-outs . Means for the removal of glass articles from the blow-mould, e.g. take-outs . Means for pushing newly formed glass articles onto a conveyor, e.g. sweep-out mechanisms; Dead-plate mechanisms {Dead-plate mechanisms} Means for cutting the hot glass in glass-blowing machines (burning-off C03B 9/42) . Use of materials for the moulds Pressing {molten} glass {or performed glass reheated to equivalent low viscosity without
9/342 9/344 9/347 9/353 9/3532 9/3535 9/3537	 {Neck moulds (C03B 9/325 takes precedence)} {Bottom moulds (C03B 9/335 takes precedence)} Construction of the blank or blow mould Mould holders {; Mould opening and closing mechanisms} {Mechanisms for holders of half moulds moving by rotation about a common vertical axis} {with the half moulds parallel upon opening and closing} {Mechanisms for holders of half moulds moving by linear translation} Blow heads; Supplying, ejecting or controlling the air {Selection or characteristics of the blowing 	9/447 9/453 9/4535 9/46 9/48	 . Means for discharging combined with glass-blowing machines, e.g. take-outs . Means for the removal of glass articles from the blow-mould, e.g. take-outs . Means for pushing newly formed glass articles onto a conveyor, e.g. sweep-out mechanisms; Dead-plate mechanisms . {Dead-plate mechanisms} . Means for cutting the hot glass in glass-blowing machines (burning-off C03B 9/42) . Use of materials for the moulds Pressing {molten} glass {or performed glass
9/342 9/344 9/347 9/353 9/3532 9/3535 9/3537 9/36	 {Neck moulds (C03B 9/325 takes precedence)} {Bottom moulds (C03B 9/335 takes precedence)} Construction of the blank or blow mould Mould holders {; Mould opening and closing mechanisms} {Mechanisms for holders of half moulds moving by rotation about a common vertical axis} {with the half moulds parallel upon opening and closing} {Mechanisms for holders of half moulds moving by linear translation} . Blow heads; Supplying, ejecting or controlling the air {Selection or characteristics of the blowing medium, e.g. gas composition, moisture 	9/447 9/453 9/4535 9/46 9/48	 . Means for discharging combined with glass-blowing machines, e.g. take-outs . Means for the removal of glass articles from the blow-mould, e.g. take-outs . Means for pushing newly formed glass articles onto a conveyor, e.g. sweep-out mechanisms; Dead-plate mechanisms {Dead-plate mechanisms} Means for cutting the hot glass in glass-blowing machines (burning-off C03B 9/42) . Use of materials for the moulds Pressing {molten} glass {or performed glass reheated to equivalent low viscosity without blowing (shaping molten glass by a press-blow
9/342 9/344 9/347 9/353 9/3532 9/3535 9/3537 9/36	 . • {Neck moulds (C03B 9/325 takes precedence)} . • {Bottom moulds (C03B 9/335 takes precedence)} . • Construction of the blank or blow mould . • Mould holders {; Mould opening and closing mechanisms} . • {Mechanisms for holders of half moulds moving by rotation about a common vertical axis} . • {with the half moulds parallel upon opening and closing} . • {Mechanisms for holders of half moulds moving by linear translation} . • {Mechanisms for holders of half moulds moving by linear translation} . • Blow heads; Supplying, ejecting or controlling the air . • {Selection or characteristics of the blowing medium, e.g. gas composition, moisture content, cryogenic state} 	9/447 9/453 9/4535 9/46 9/48	 . Means for discharging combined with glass-blowing machines, e.g. take-outs . Means for the removal of glass articles from the blow-mould, e.g. take-outs . Means for pushing newly formed glass articles onto a conveyor, e.g. sweep-out mechanisms; Dead-plate mechanisms {Dead-plate mechanisms} Means for cutting the hot glass in glass-blowing machines (burning-off C03B 9/42) . Use of materials for the moulds Pressing {molten} glass {or performed glass reheated to equivalent low viscosity without blowing (shaping molten glass by a press-blow process C03B 9/00, e.g. C03B 9/193; re-forming shaped glass C03B 23/00; re-heating the performed glass C03B 29/00; transporting the performed or
9/342 9/344 9/347 9/353 9/3532 9/3535 9/3537 9/36	 {Neck moulds (C03B 9/325 takes precedence)} {Bottom moulds (C03B 9/335 takes precedence)} Construction of the blank or blow mould Mould holders {; Mould opening and closing mechanisms} {Mechanisms for holders of half moulds moving by rotation about a common vertical axis} {with the half moulds parallel upon opening and closing} {Mechanisms for holders of half moulds moving by linear translation} {Mechanisms for holders of half moulds moving by linear translation} {Selection or characteristics of the blowing medium, e.g. gas composition, moisture content, cryogenic state} {Means for holding or transferring the blow 	9/447 9/453 9/4535 9/46 9/48	 . Means for discharging combined with glass-blowing machines, e.g. take-outs . Means for the removal of glass articles from the blow-mould, e.g. take-outs . Means for pushing newly formed glass articles onto a conveyor, e.g. sweep-out mechanisms; Dead-plate mechanisms . Dead-plate mechanisms . Means for cutting the hot glass in glass-blowing machines (burning-off C03B 9/42) . Use of materials for the moulds Pressing {molten} glass {or performed glass reheated to equivalent low viscosity without blowing (shaping molten glass by a press-blow process C03B 9/00, e.g. C03B 9/193; re-forming shaped glass C03B 23/00; transporting the performed or pressed glass during its manufacture C03B 35/00)}
9/342 9/344 9/347 9/353 9/3532 9/3535 9/3537 9/36 9/3609	 . • {Neck moulds (C03B 9/325 takes precedence)} . • {Bottom moulds (C03B 9/335 takes precedence)} . • Construction of the blank or blow mould . • Mould holders {; Mould opening and closing mechanisms} . • {Mechanisms for holders of half moulds moving by rotation about a common vertical axis} . • { with the half moulds parallel upon opening and closing} . • { Mechanisms for holders of half moulds moving by linear translation} . • { Mechanisms for holders of half moulds moving by linear translation} . • { Selection or characteristics of the blowing medium, e.g. gas composition, moisture content, cryogenic state} . • { Means for holding or transferring the blow head} 	9/447 9/453 9/4535 9/46 9/48	 Means for discharging combined with glass-blowing machines, e.g. take-outs Means for the removal of glass articles from the blow-mould, e.g. take-outs Means for pushing newly formed glass articles onto a conveyor, e.g. sweep-out mechanisms; Dead-plate mechanisms Quad-plate mechanisms Means for cutting the hot glass in glass-blowing machines (burning-off C03B 9/42) Use of materials for the moulds Pressing {molten} glass {or performed glass reheated to equivalent low viscosity without blowing (shaping molten glass by a press-blow process C03B 9/00, e.g. C03B 9/193; re-forming shaped glass C03B 23/00; re-heating the performed glass C03B 29/00; transporting the performed or pressed glass during its manufacture C03B 35/00)} {Pressing under special atmospheres, e.g. inert,
9/342 9/344 9/347 9/353 9/3532 9/3535 9/3537 9/36 9/3609	 {Neck moulds (C03B 9/325 takes precedence)} {Bottom moulds (C03B 9/335 takes precedence)} Construction of the blank or blow mould Mould holders {; Mould opening and closing mechanisms} {Mechanisms for holders of half moulds moving by rotation about a common vertical axis} {with the half moulds parallel upon opening and closing} {Mechanisms for holders of half moulds moving by linear translation} . Blow heads; Supplying, ejecting or controlling the air {Selection or characteristics of the blowing medium, e.g. gas composition, moisture content, cryogenic state} {Means for holding or transferring the blow head} {Means for general supply or distribution of the 	9/447 9/453 9/4535 9/46 9/48 11/00	 Means for discharging combined with glass-blowing machines, e.g. take-outs Means for the removal of glass articles from the blow-mould, e.g. take-outs Means for pushing newly formed glass articles onto a conveyor, e.g. sweep-out mechanisms; Dead-plate mechanisms [Dead-plate mechanisms] Means for cutting the hot glass in glass-blowing machines (burning-off C03B 9/42) Use of materials for the moulds Pressing {molten} glass {or performed glass reheated to equivalent low viscosity without blowing (shaping molten glass by a press-blow process C03B 9/00, e.g. C03B 9/193; re-forming shaped glass C03B 23/00; re-heating the performed glass C03B 29/00; transporting the performed or pressed glass during its manufacture C03B 35/00)} {Pressing under special atmospheres, e.g. inert, reactive, vacuum, clean}
9/342 9/344 9/347 9/353 9/3532 9/3535 9/3537 9/36 9/3609 9/3618 9/3627	 . • {Neck moulds (C03B 9/325 takes precedence)} . • {Bottom moulds (C03B 9/335 takes precedence)} . • Construction of the blank or blow mould . • Mould holders {; Mould opening and closing mechanisms} . • {Mechanisms for holders of half moulds moving by rotation about a common vertical axis} . • • {with the half moulds parallel upon opening and closing} . • • {Mechanisms for holders of half moulds moving by linear translation} . • Blow heads; Supplying, ejecting or controlling the air . • {Selection or characteristics of the blowing medium, e.g. gas composition, moisture content, cryogenic state} . • {Means for holding or transferring the blow head} . • {Means for general supply or distribution of the air to the blow heads} 	9/447 9/453 9/4535 9/46 9/48 11/00	 Means for discharging combined with glass-blowing machines, e.g. take-outs Means for the removal of glass articles from the blow-mould, e.g. take-outs Means for pushing newly formed glass articles onto a conveyor, e.g. sweep-out mechanisms; Dead-plate mechanisms Quad-plate mechanisms Means for cutting the hot glass in glass-blowing machines (burning-off C03B 9/42) Use of materials for the moulds Pressing {molten} glass {or performed glass reheated to equivalent low viscosity without blowing (shaping molten glass by a press-blow process C03B 9/00, e.g. C03B 9/193; re-forming shaped glass C03B 23/00; re-heating the performed glass C03B 29/00; transporting the performed or pressed glass during its manufacture C03B 35/00)} {Pressing under special atmospheres, e.g. inert, reactive, vacuum, clean} in machines with rotary tables
9/342 9/344 9/347 9/353 9/3532 9/3535 9/3537 9/36 9/3609	 {Neck moulds (C03B 9/325 takes precedence)} {Bottom moulds (C03B 9/335 takes precedence)} Construction of the blank or blow mould Mould holders {; Mould opening and closing mechanisms} {Mechanisms for holders of half moulds moving by rotation about a common vertical axis} {with the half moulds parallel upon opening and closing} {Mechanisms for holders of half moulds moving by linear translation} . Blow heads; Supplying, ejecting or controlling the air {Selection or characteristics of the blowing medium, e.g. gas composition, moisture content, cryogenic state} {Means for holding or transferring the blow head} {Means for general supply or distribution of the air to the blow heads} {Manifolds or regulating devices, e.g. 	9/447 9/453 9/4535 9/46 9/48 11/00	 Means for discharging combined with glass-blowing machines, e.g. take-outs Means for the removal of glass articles from the blow-mould, e.g. take-outs Means for pushing newly formed glass articles onto a conveyor, e.g. sweep-out mechanisms; Dead-plate mechanisms Quad-plate mechanisms Means for cutting the hot glass in glass-blowing machines (burning-off C03B 9/42) Use of materials for the moulds Pressing {molten} glass {or performed glass reheated to equivalent low viscosity without blowing (shaping molten glass by a press-blow process C03B 9/00, e.g. C03B 9/193; re-forming shaped glass C03B 23/00; re-heating the performed glass C03B 29/00; transporting the performed or pressed glass during its manufacture C03B 35/00)} {Pressing under special atmospheres, e.g. inert, reactive, vacuum, clean} in machines with rotary tables in machines with moulds fed by suction
9/342 9/344 9/347 9/353 9/3532 9/3535 9/3537 9/36 9/3609 9/3618 9/3627 9/3636	 . • {Neck moulds (C03B 9/325 takes precedence)} . • {Bottom moulds (C03B 9/335 takes precedence)} . • Construction of the blank or blow mould . • Mould holders {; Mould opening and closing mechanisms} . • {Mechanisms for holders of half moulds moving by rotation about a common vertical axis} . • { with the half moulds parallel upon opening and closing} . • { Mechanisms for holders of half moulds moving by linear translation} . • Blow heads; Supplying, ejecting or controlling the air . • { Selection or characteristics of the blowing medium, e.g. gas composition, moisture content, cryogenic state} . • { Means for holding or transferring the blow head} . • { Means for general supply or distribution of the air to the blow heads} . • { Manifolds or regulating devices, e.g. valves} 	9/447 9/453 9/4535 9/46 9/48 11/00 11/005 11/02 11/04 11/05	 . Means for discharging combined with glass-blowing machines, e.g. take-outs . Means for the removal of glass articles from the blow-mould, e.g. take-outs . Means for pushing newly formed glass articles onto a conveyor, e.g. sweep-out mechanisms; Dead-plate mechanisms {Dead-plate mechanisms} {Dead-plate mechanisms} Weans for cutting the hot glass in glass-blowing machines (burning-off C03B 9/42) . Use of materials for the moulds Pressing {molten} glass {or performed glass reheated to equivalent low viscosity without blowing (shaping molten glass by a press-blow process C03B 9/00, e.g. C03B 9/193; re-forming shaped glass C03B 23/00; re-heating the performed glass C03B 29/00; transporting the performed or pressed glass during its manufacture C03B 35/00)} . {Pressing under special atmospheres, e.g. inert, reactive, vacuum, clean} . in machines with rotary tables . in machines with reciprocating moulds
9/342 9/344 9/347 9/353 9/3532 9/3535 9/3537 9/36 9/3609 9/3618 9/3627 9/3636 9/3645	 {Neck moulds (C03B 9/325 takes precedence)} {Bottom moulds (C03B 9/335 takes precedence)} Construction of the blank or blow mould Mould holders {; Mould opening and closing mechanisms} {Mechanisms for holders of half moulds moving by rotation about a common vertical axis} {with the half moulds parallel upon opening and closing} {Mechanisms for holders of half moulds moving by linear translation} . Blow heads; Supplying, ejecting or controlling the air {Selection or characteristics of the blowing medium, e.g. gas composition, moisture content, cryogenic state} {Means for holding or transferring the blow head} {Means for general supply or distribution of the air to the blow heads} {Manifolds or regulating devices, e.g. valves} {Details thereof relating to plungers} 	9/447 9/453 9/4535 9/46 9/48 11/00 11/005 11/02 11/04	 Means for discharging combined with glass-blowing machines, e.g. take-outs Means for the removal of glass articles from the blow-mould, e.g. take-outs Means for pushing newly formed glass articles onto a conveyor, e.g. sweep-out mechanisms; Dead-plate mechanisms Quad-plate mechanisms Means for cutting the hot glass in glass-blowing machines (burning-off C03B 9/42) Use of materials for the moulds Pressing {molten} glass {or performed glass reheated to equivalent low viscosity without blowing (shaping molten glass by a press-blow process C03B 9/00, e.g. C03B 9/193; re-forming shaped glass C03B 23/00; re-heating the performed glass C03B 29/00; transporting the performed or pressed glass during its manufacture C03B 35/00)} {Pressing under special atmospheres, e.g. inert, reactive, vacuum, clean} in machines with rotary tables in machines with moulds fed by suction
9/342 9/344 9/347 9/353 9/3532 9/3535 9/3537 9/36 9/3609 9/3618 9/3627 9/3636 9/3645 9/3645	 . • {Neck moulds (C03B 9/325 takes precedence)} • • {Bottom moulds (C03B 9/335 takes precedence)} • • • Construction of the blank or blow mould • • • Mould holders {; Mould opening and closing mechanisms} • • • {Mechanisms for holders of half moulds moving by rotation about a common vertical axis} • • • • {with the half moulds parallel upon opening and closing} • • • • {Wechanisms for holders of half moulds moving by linear translation} • • Blow heads; Supplying, ejecting or controlling the air • • {Selection or characteristics of the blowing medium, e.g. gas composition, moisture content, cryogenic state} • • {Means for holding or transferring the blow head} • • {Means for general supply or distribution of the air to the blow heads} • • • {Manifolds or regulating devices, e.g. valves} • • {Details thereof relating to plungers} • • {Details thereof relating to neck forming} 	9/447 9/453 9/4535 9/46 9/48 11/00 11/005 11/02 11/04 11/05	 . Means for discharging combined with glass-blowing machines, e.g. take-outs . Means for the removal of glass articles from the blow-mould, e.g. take-outs . Means for pushing newly formed glass articles onto a conveyor, e.g. sweep-out mechanisms; Dead-plate mechanisms {Dead-plate mechanisms} {Dead-plate mechanisms} Weans for cutting the hot glass in glass-blowing machines (burning-off C03B 9/42) . Use of materials for the moulds Pressing {molten} glass {or performed glass reheated to equivalent low viscosity without blowing (shaping molten glass by a press-blow process C03B 9/00, e.g. C03B 9/193; re-forming shaped glass C03B 23/00; re-heating the performed glass C03B 29/00; transporting the performed or pressed glass during its manufacture C03B 35/00)} . {Pressing under special atmospheres, e.g. inert, reactive, vacuum, clean} . in machines with rotary tables . in machines with reciprocating moulds
9/342 9/344 9/347 9/353 9/3532 9/3535 9/3537 9/36 9/3609 9/3618 9/3627 9/3636 9/3645	 {Neck moulds (C03B 9/325 takes precedence)} {Bottom moulds (C03B 9/335 takes precedence)} Construction of the blank or blow mould Mould holders {; Mould opening and closing mechanisms} {Mechanisms for holders of half moulds moving by rotation about a common vertical axis} {with the half moulds parallel upon opening and closing} {Mechanisms for holders of half moulds moving by linear translation} . Blow heads; Supplying, ejecting or controlling the air {Selection or characteristics of the blowing medium, e.g. gas composition, moisture content, cryogenic state} {Means for holding or transferring the blow head} {Means for general supply or distribution of the air to the blow heads} {Manifolds or regulating devices, e.g. valves} {Details thereof relating to plungers} {Details thereof relating to internal blowing of 	9/447 9/453 9/4535 9/46 9/48 11/00 11/005 11/02 11/04 11/05 11/06	 Means for discharging combined with glass-blowing machines, e.g. take-outs Means for the removal of glass articles from the blow-mould, e.g. take-outs Means for pushing newly formed glass articles onto a conveyor, e.g. sweep-out mechanisms; Dead-plate mechanisms Dead-plate mechanisms Means for cutting the hot glass in glass-blowing machines (burning-off C03B 9/42) Use of materials for the moulds Pressing {molten} glass {or performed glass reheated to equivalent low viscosity without blowing (shaping molten glass by a press-blow process C03B 9/00, e.g. C03B 9/193; re-forming shaped glass C03B 23/00; re-heating the performed glass C03B 29/00; transporting the performed or pressed glass during its manufacture C03B 35/00)} {Pressing under special atmospheres, e.g. inert, reactive, vacuum, clean} in machines with rotary tables in machines with rotary tables in machines with reciprocating moulds Construction of plunger or mould Suction moulds for making solid articles, e.g. lenses
9/342 9/344 9/347 9/353 9/3532 9/3535 9/3537 9/3609 9/3609 9/3618 9/3627 9/3636 9/3645 9/3654 9/3663	 . • {Neck moulds (C03B 9/325 takes precedence)} . • {Bottom moulds (C03B 9/335 takes precedence)} . • Construction of the blank or blow mould . • Mould holders {; Mould opening and closing mechanisms} . • {Mechanisms for holders of half moulds moving by rotation about a common vertical axis} . • {with the half moulds parallel upon opening and closing} . • {Mechanisms for holders of half moulds moving by linear translation} . • Blow heads; Supplying, ejecting or controlling the air . • {Selection or characteristics of the blowing medium, e.g. gas composition, moisture content, cryogenic state} . • {Means for holding or transferring the blow head} . • {Means for general supply or distribution of the air to the blow heads} . • {Manifolds or regulating devices, e.g. valves} . • {Details thereof relating to plungers} . • {Details thereof relating to internal blowing of the hollow glass} 	9/447 9/453 9/4535 9/46 9/48 11/00 11/005 11/02 11/04 11/05 11/06 11/07	 Means for discharging combined with glass-blowing machines, e.g. take-outs Means for the removal of glass articles from the blow-mould, e.g. take-outs Means for pushing newly formed glass articles onto a conveyor, e.g. sweep-out mechanisms; Dead-plate mechanisms Quad-plate mechanisms Means for cutting the hot glass in glass-blowing machines (burning-off C03B 9/42) Use of materials for the moulds Pressing {molten} glass {or performed glass reheated to equivalent low viscosity without blowing (shaping molten glass by a press-blow process C03B 9/00, e.g. C03B 9/193; re-forming shaped glass C03B 23/00; re-heating the performed glass C03B 29/00; transporting the performed or pressed glass during its manufacture C03B 35/00)} {Pressing under special atmospheres, e.g. inert, reactive, vacuum, clean} in machines with rotary tables in machines with rotary tables in machines with reciprocating moulds Construction of plunger or mould Suction moulds for making solid articles, e.g. lenses {having profiled, patterned or microstructured
9/342 9/344 9/347 9/353 9/3532 9/3535 9/3537 9/36 9/3609 9/3618 9/3627 9/3636 9/3645 9/3645	 {Neck moulds (C03B 9/325 takes precedence)} {Bottom moulds (C03B 9/335 takes precedence)} Construction of the blank or blow mould Mould holders {; Mould opening and closing mechanisms} {Mechanisms for holders of half moulds moving by rotation about a common vertical axis} {with the half moulds parallel upon opening and closing} {Mechanisms for holders of half moulds moving by linear translation} . Blow heads; Supplying, ejecting or controlling the air {Selection or characteristics of the blowing medium, e.g. gas composition, moisture content, cryogenic state} {Means for holding or transferring the blow head} {Means for general supply or distribution of the air to the blow heads} {Manifolds or regulating devices, e.g. valves} {Details thereof relating to plungers} {Details thereof relating to internal blowing of 	9/447 9/453 9/4535 9/46 9/48 11/00 11/005 11/02 11/04 11/05 11/06 11/07 11/08	 Means for discharging combined with glass-blowing machines, e.g. take-outs Means for the removal of glass articles from the blow-mould, e.g. take-outs Means for pushing newly formed glass articles onto a conveyor, e.g. sweep-out mechanisms; Dead-plate mechanisms Dead-plate mechanisms Means for cutting the hot glass in glass-blowing machines (burning-off C03B 9/42) Use of materials for the moulds Pressing {molten} glass {or performed glass reheated to equivalent low viscosity without blowing (shaping molten glass by a press-blow process C03B 9/00, e.g. C03B 9/193; re-forming shaped glass C03B 23/00; re-heating the performed glass C03B 29/00; transporting the performed or pressed glass during its manufacture C03B 35/00)} {Pressing under special atmospheres, e.g. inert, reactive, vacuum, clean} in machines with rotary tables in machines with rotary tables in machines with reciprocating moulds Construction of plunger or mould Suction moulds for making solid articles, e.g. lenses

11/084	 • { material composition or material properties of press dies therefor} 	17/02	• Forming {molten} glass coated with coloured layers; {Forming molten glass of different
11/086	• • • {of coated dies (use of materials as release or lubricating compositions C03B 40/02)}		compositions or layers; Forming molten glass comprising reinforcements or inserts}
11/088	• • • {Flat discs}	17/025	• • {Tubes or rods}
11/10	• { Tractuses}• for making hollow { or semi-hollow } articles	17/04	• Forming tubes or rods by drawing from stationary
11/12	Cooling, heating, or insulating the plunger, the	1770.	or rotating tools or from forming nozzles
11/12	mould, or the glass-pressing machine; {cooling or	17/06	Forming glass sheets
	heating of the glass in the mould}(C03B 9/38 takes	17/061	• • {by lateral drawing or extrusion}
	precedence)	17/062	• • • {combined with flowing onto a solid or
11/122	• • {Heating}		gaseous support from which the sheet is
11/125	• • {Cooling}		drawn}
11/127	• • • {of hollow or semi-hollow articles or their moulds}	17/064	 • {by the overflow downdraw fusion process; Isopipes therefor}
11/14	• {Pressing laminated glass articles or glass} with metal inserts {or enclosures, e.g. wires, bubbles,	17/065	 {Forming profiled, patterned or corrugated sheets}
	coloured parts}	17/067	• • {combined with thermal conditioning of the
11/16	Gearing or controlling mechanisms specially		sheets}
13/00	adapted for glass presses Rolling {molten} glass {, i.e. where the molten glass	17/068	• • {Means for providing the drawing force, e.g. traction or draw rollers}
13/00	is shaped by rolling (re-forming shaped glass by	18/00	Shaping glass in contact with the surface of a
	rolling C03B 23/004, C03B 23/033, C03B 23/055)}	10/00	liquid
13/01	• Rolling profiled glass articles {, e.g. with I, L, T	18/02	• Forming sheets
	cross-sectional profiles}	18/04	Changing or regulating the dimensions of the
13/02	 Rolling non-patterned sheets discontinuously 		molten glass ribbon
13/04	 Rolling non-patterned sheets continuously 	18/06	• • using mechanical means, e.g. restrictor bars,
13/06	• Rolling corrugated sheets {, e.g. with undulating		edge rollers
10/00	waving form}	18/08	using gas
13/08	• Rolling patterned sheets {, e.g. sheets having a	18/10	using electric means
13/10	surface pattern} • Rolling multi-layer sheets {, e.g. sheets having a	18/12	 Making multilayer, coloured or armoured glass (chemical aspects <u>C03C</u>)
13/12	coloured glass layer}Rolling glass with enclosures, e.g. wire, {bubbles,	18/14	 Changing the surface of the glass ribbon, e.g. roughening (by chemical methods <u>C03C</u>)
	fibres, particles} or asbestos	18/16	Construction of the float tank; Use of material for
13/14	• Rolling other articles {, i.e. not covered by C03B 13/01 - C03B 13/12, e.g. channeled articles,		the float tank; Coating or protection of the tank wall
	briquette-shaped articles}	18/18	Controlling or regulating the temperature of the
13/16	 Construction of the glass rollers 		float bath; Composition or purification of the float
13/18	• Auxiliary means for rolling glass, e.g. sheet		bath
	supports, gripping devices, hand-ladles, means for	18/20	Composition of the atmosphere above the float
12/102	moving glass pots		bath; Treating or purifying the atmosphere above the float bath
13/183	 • {Receiving tables or roller beds for the rolled plateglass} 	18/22	Controlling or regulating the temperature of the
13/186	• • {Pot gripping devices}	10/22	atmosphere above the float tank
			•
15/00	Drawing glass upwardly from the melt	19/00	Other methods of shaping glass (manufacture or
15/02	Drawing glass sheets		treatment of flakes, fibres or filaments from softened glass, minerals or slags <u>C03B 37/00</u>)
15/04	• • from the free surface of the melt	19/01	 by progressive fusion {or sintering} of powdered
15/06	by mans of bars below the surface of the malt	17/01	glass onto a shaping substrate, i.e. accretion {, e.g.
15/08	by means of bars below the surface of the melt		plasma oxidation deposition (making fibre preforms
15/10	 multi-layer glass sheets or glass sheets coated with coloured layers 	19/02	C03B 37/01291)} • by casting {molten glass, e.g. injection moulding}
15/12	Construction of the annealing tower	19/02	 by casting {model grass, e.g. injection moduling} • {by injection moulding, e.g. extrusion}
15/14	. Drawing tubes, cylinders, or rods from the melt	19/04	 by centrifuging {(C03B 19/095 takes precedence)}
15/16	 Drawing tubes, cylinders or rods, coated with coloured layers 	19/06	 by sintering, {e.g. by cold isostatic pressing of
15/18	Means for laying-down and conveying combined with the drawing of glass sheets, tubes or rods		powders and subsequent sintering, by hot pressing of powders, by sintering slurries or dispersions not undergoing a liquid phase reaction}
17/00	Forming {molten} glass by flowing-out, pushing-	19/063	• • {by hot-pressing powders}
2.,50	out, {extruding} or drawing downwardly or	19/066	• • {for the production of quartz or fused silica
	laterally from forming slits or by overflowing over		articles (other processes specially adapted for
	lips		the production of quartz or fused silica articles <u>C03B 20/00</u>)}

19/08	• by foaming	20/00	Processes specially adapted for the production
19/09	 by fusing powdered glass in a shaping mould 		of quartz or fused silica articles {, not otherwise
19/095	• • {by centrifuging, e.g. arc discharge in rotating mould (crucibles for crystal pulling in general C30B 15/10, C30B 35/002)}		provided for (C03B 19/01, C03B 19/066, C03B 19/106, C03B 19/12, C03B 19/14, C03B 37/00 take precedence)}
19/10	Forming beads	•4.00	
19/1005	 Forming solid beads (chemical aspects C03C 12/00)} 	21/00	Severing glass sheets, tubes or rods while still plastic
19/101	{by casting molten glass into a mould or onto a	21/02 21/04	 by cutting (<u>C03B 9/46</u> takes precedence) by punching out
10/1015	wire}	21/06	• by flashing-off, burning-off or fusing (C03B 9/42
19/1015	 • {by using centrifugal force or by pouring molten glass onto a rotating cutting body, e.g. shredding} 	22/00	takes precedence)
19/102	{by blowing a gas onto a stream of molten	23/00	Re-forming shaped glass (re-forming fibres or filaments C03B 37/14)
	glass or onto particulate materials, e.g. pulverising}	23/0006	• {by drawing (<u>C03B 23/02</u> , <u>C03B 23/04</u> , <u>C03B 23/18</u> take precedence)}
19/1025	{Bead furnaces or burners}	23/0013	• {by pressing (C03B 21/04, C03B 23/02,
19/103	{Fluidised-bed furnaces}		C03B 23/04, C03B 23/18, C03B 23/26 take
19/1035	• • {by pressing}		precedence)}
19/1033	• (by pressing)• (by rolling, e.g. using revolving cylinders,	23/002	• • {Re-forming the rim portions}
17/104	rotating discs, rolls}	23/0026	• {by gravity, e.g. sagging (C03B 23/02, C03B 23/04,
19/1045	• • • {by bringing hot glass in contact with a liquid,		C03B 23/18 take precedence)}
10/105	e.g. shattering}	23/0033	• {by centrifuging (<u>C03B 23/02</u> , <u>C03B 23/04</u> ,
19/105 19/1055	 {the liquid being a molten metal or salt} {by extruding, e.g. dripping molten glass in a	23/004	C03B 23/18 take precedence)} • {by rolling (C03B 23/02, C03B 23/04, C03B 23/18
	gaseous atmosphere}		take precedence)}
19/106	• • • {by chemical vapour deposition; by liquid	23/0046	• • {Re-forming the rim portions}
	phase reaction}	23/0053	• • {Hand tools therefor}
19/1065	• • • { by liquid phase reactions, e.g. by means of a gel phase}	23/006	• {by fusing, e.g. for flame sealing (<u>C03B 9/42</u> , <u>C03B 21/06</u> , <u>C03B 23/02</u> , <u>C03B 23/04</u> ,
19/107	 {Forming hollow beads (chemical aspects C03C 11/002)} 	23/0066	C03B 23/18, C03B 33/08 take precedence) • {by bending (C03B 23/02, C03B 23/04,
19/1075	• • {by blowing, pressing, centrifuging, rolling or dripping}	23/0073	C03B 23/18 take precedence) • {by blowing (C03B 23/02, C03B 23/04,
19/108	• • {Forming porous, sintered or foamed beads		C03B 23/18 take precedence)}
40/400#	(chemical aspects C03C 11/00)}	23/008	• • {Vacuum-blowing}
19/1085	• • • {by blowing, pressing, centrifuging, rolling or dripping}	23/0086	• {Heating devices specially adapted for re-forming shaped glass articles in general, e.g. burners
19/109	 {Glass-melting furnaces specially adapted for making beads} 		(<u>C03B 23/02</u> , <u>C03B 23/04</u> , <u>C03B 23/18</u> take precedence)}
19/1095	• • {Thermal after-treatment of beads, e.g. tempering, crystallisation, annealing}	23/0093	 {Tools and machines specially adapted for re- forming shaped glass articles in general, e.g.
19/12	 by liquid-phase reaction processes 		chucks (C03B 23/0086, C03B 23/02, C03B 23/04,
19/14	 by gas- {or vapour-} phase reaction processes 		C03B 23/18 take precedence)}
19/1407	• {Deposition reactors therefor}	23/02	 Re-forming glass sheets
19/1415	Reactant delivery systems	23/023	by bending
19/1413	{Reactant derivery systems} {Reactant deposition burners}	23/0235	• • • {involving applying local or additional heating,
	{Plasma vapour deposition}		cooling or insulating means}
19/143		23/025	by gravity
19/1438	• • • (for delivering and depositing additional reactants as liquids or solutions, e.g. solution	23/0252	• • • {by gravity only, e.g. sagging (<u>C03B 23/035</u> takes precedence)}
19/1446	doping of the article or deposit} • • {Means for after-treatment or catching of worked}	23/0254	• • • • {in a continuous way, e.g. gravity roll bending}
19/1453	reactant gases} {Thermal after-treatment of the shaped article,	23/0256	Gravity bending accelerated by applying mechanical forces, e.g. inertia, weights or
10/14/1	e.g. dehydrating, consolidating, sintering}		local forces}
19/1461	• • • {for doping the shaped article with flourine}	23/0258	• • • • Gravity bending involving applying local
19/1469	• • {Means for changing or stabilising the shape or form of the shaped article or deposit}	23/0230	or additional heating, cooling or insulating means}
19/1476	 {Means for heating during or immediately prior to deposition (<u>C03B 19/1415</u> takes precedence)} 	23/027	with moulds having at least two upward
19/1484	• • {Means for supporting, rotating or translating the	23/03	pivotable mould sectionsby press-bending between shaping moulds
10/1/02	article being formed}	23/0302	{between opposing full-face shaping
19/1492	• • • {Deposition substrates, e.g. targets}	23, 0302	moulds}

23/0305	{Press-bending accelerated by applying	23/099	• • {by fusing, e.g. flame sealing}
	mechanical forces, e.g. inertia, weights or	23/11	Reshaping by drawing without blowing, in
	local forces}		combination with separating, e.g. for making
23/0307	{Press-bending involving applying local	22/112	ampoules
	or additional heating, cooling or insulating means}	23/112	• • • {Apparatus for conveying the tubes or rods in a curved path around a vertical axis through one
23/031	the glass sheets being in a vertical position		or more forming stations}
20,001	(C03B 23/033 takes precedence)	23/114	• • • {Devices for feeding tubes or rods to these
23/0315	• • • • {and supported on the lower edge}	20,111.	machines }
23/033	in a continuous way, e.g. roll forming {, or	23/116	• • • {Apparatus for conveying the tubes or rods in
	press-roll bending}		a curved path around a horizontal axis through
23/035	• • using a gas cushion or by changing gas		one or more forming stations}
	pressure, e.g. by applying vacuum {or blowing	23/118	• • • {Apparatus for conveying the tubes or rods in a
	for supporting the glass while bending}		horizontal or an inclined plane through one or
23/0352	• • • {by suction or blowing out for providing the deformation force to bend the glass sheet}	23/13	more forming stations} Reshaping combined with uniting or heat sealing,
23/0355	• • • • {by blowing without suction directly on	23/13	e.g. for making vacuum bottles
23/0333	the glass sheet}	23/18	Re-forming and sealing ampoules
23/0357	• • • • {by suction without blowing, e.g. with	23/20	 Uniting glass pieces by fusing without substantial
	vacuum or by venturi effect}		reshaping
23/037	• • by drawing	23/203	• Uniting glass sheets (C03B 23/24 takes
23/04	Re-forming tubes or rods		precedence)
23/043	Heating devices specially adapted for re-forming	23/207	• • Uniting glass rods, glass tubes, or hollow
	tubes or rods in general, e.g. burners		glassware (<u>C03B 23/24</u> takes precedence)
23/045	Tools or apparatus specially adapted for re-	23/213	Joining projections or feet
	forming tubes or rods in general, e.g. glass lathes,	23/217	• • • for the production of cathode ray tubes or
22/047	chucks (<u>C03B 23/043</u> takes precedence)	22/22	similarly shaped tubes
23/047	• by drawing ({C03B 23/091} , C03B 37/025 takes precedence)	23/22 23/24	 Uniting glass lenses, e.g. forming bifocal lenses Making hollow glass sheets or bricks
23/0473	• • {for forming constrictions}	23/245	{Hollow glass sheets}
23/0476	• • {onto a forming die, e.g. a mandrel or a wire}	23/243	Punching reheated glass
23/049	• by pressing (C03B 21/04 {, C03B 23/092},	23/20	• I thening reneated glass
23/04)	C03B 23/26 take precedence)	After-treatn	nent of glass products (of fibres C03B 37/10)
23/0493	C03B 23/26 take precedence) {in a longitudinal direction, e.g. for upsetting or		
23/0493	 C03B 23/26 take precedence) • {in a longitudinal direction, e.g. for upsetting or extrusion} 	25/00	Annealing glass products
	 C03B 23/26 take precedence) • {in a longitudinal direction, e.g. for upsetting or extrusion} • {for expanding in a radial way, e.g. by forcing 	25/00 25/02	Annealing glass products . in a discontinuous way
23/0493 23/0496	 C03B 23/26 take precedence) • { in a longitudinal direction, e.g. for upsetting or extrusion} • { for expanding in a radial way, e.g. by forcing a mandrel through a tube or rod} 	25/00	Annealing glass products
23/0493	 C03B 23/26 take precedence) • {in a longitudinal direction, e.g. for upsetting or extrusion} • {for expanding in a radial way, e.g. by forcing a mandrel through a tube or rod} • by gravity, e.g. sagging {(C03B 23/093) takes 	25/00 25/02 25/025	Annealing glass products in a discontinuous way Glass sheets
23/0493 23/0496 23/051	 C03B 23/26 take precedence) • {in a longitudinal direction, e.g. for upsetting or extrusion} • {for expanding in a radial way, e.g. by forcing a mandrel through a tube or rod} • by gravity, e.g. sagging {(C03B 23/093 takes precedence)} 	25/00 25/02 25/025 25/04	Annealing glass products in a discontinuous way Glass sheets in a continuous way
23/0493 23/0496	 C03B 23/26 take precedence) • {in a longitudinal direction, e.g. for upsetting or extrusion} • {for expanding in a radial way, e.g. by forcing a mandrel through a tube or rod} • by gravity, e.g. sagging {(C03B 23/093) takes 	25/00 25/02 25/025 25/04 25/06	Annealing glass products in a discontinuous way Glass sheets in a continuous way with horizontal displacement of the glass products
23/0493 23/0496 23/051	 C03B 23/26 take precedence) • { in a longitudinal direction, e.g. for upsetting or extrusion} • { for expanding in a radial way, e.g. by forcing a mandrel through a tube or rod} • by gravity, e.g. sagging {(C03B 23/093 takes precedence)} • by centrifuging ({C03B 23/094}, C03B 37/04 takes precedence) 	25/00 25/02 25/025 25/04 25/06 25/08	Annealing glass products in a discontinuous way Glass sheets in a continuous way with horizontal displacement of the glass products of glass sheets being in a vertical position being in a horizontal position on a fluid
23/0493 23/0496 23/051 23/053	 C03B 23/26 take precedence) • {in a longitudinal direction, e.g. for upsetting or extrusion} • {for expanding in a radial way, e.g. by forcing a mandrel through a tube or rod} • by gravity, e.g. sagging {(C03B 23/093) takes precedence)} • by centrifuging ({C03B 23/094}), C03B 37/04 	25/00 25/02 25/025 25/04 25/06 25/08 25/087 25/093	Annealing glass products in a discontinuous way {Glass sheets} in a continuous way with horizontal displacement of the glass products of glass sheets being in a vertical position being in a horizontal position on a fluid support, e.g. a gas or molten metal
23/0493 23/0496 23/051 23/053 23/055	 C03B 23/26 take precedence) • {in a longitudinal direction, e.g. for upsetting or extrusion} • {for expanding in a radial way, e.g. by forcing a mandrel through a tube or rod} • by gravity, e.g. sagging {(C03B 23/093 takes precedence)} • by centrifuging ({C03B 23/094} , C03B 37/04 takes precedence) • by rolling {(C03B 23/095 takes precedence)} • by fusing, e.g. for flame sealing (C03B 9/42, C03B 21/06 {C03B 23/099} , C03B 33/08 take 	25/00 25/02 25/025 25/04 25/06 25/08 25/087 25/093	Annealing glass products in a discontinuous way {Glass sheets} in a continuous way with horizontal displacement of the glass products of glass sheets being in a vertical position being in a horizontal position on a fluid support, e.g. a gas or molten metal with vertical displacement of the glass products
23/0493 23/0496 23/051 23/053 23/055 23/057	 C03B 23/26 take precedence) • {in a longitudinal direction, e.g. for upsetting or extrusion} • {for expanding in a radial way, e.g. by forcing a mandrel through a tube or rod} • by gravity, e.g. sagging {(C03B 23/093 takes precedence)} • by centrifuging ({C03B 23/094} , C03B 37/04 takes precedence) • by rolling {(C03B 23/095 takes precedence)} • by fusing, e.g. for flame sealing (C03B 9/42, C03B 21/06 {C03B 23/099} , C03B 33/08 take precedence) 	25/00 25/02 25/025 25/04 25/06 25/08 25/087 25/093	Annealing glass products in a discontinuous way {Glass sheets} in a continuous way with horizontal displacement of the glass products of glass sheets being in a vertical position being in a horizontal position on a fluid support, e.g. a gas or molten metal
23/0493 23/0496 23/051 23/053 23/055 23/057	 C03B 23/26 take precedence) • {in a longitudinal direction, e.g. for upsetting or extrusion} • {for expanding in a radial way, e.g. by forcing a mandrel through a tube or rod} • by gravity, e.g. sagging {(C03B 23/093 takes precedence)} • by centrifuging ({C03B 23/094} , C03B 37/04 takes precedence) • by rolling {(C03B 23/095 takes precedence)} • by fusing, e.g. for flame sealing (C03B 9/42, C03B 21/06 {C03B 23/099} , C03B 33/08 take precedence) • by bending {(C03B 23/096 takes precedence)} 	25/00 25/02 25/025 25/04 25/06 25/08 25/087 25/093	Annealing glass products in a discontinuous way {Glass sheets} in a continuous way with horizontal displacement of the glass products of glass sheets being in a vertical position being in a horizontal position on a fluid support, e.g. a gas or molten metal with vertical displacement of the glass products
23/0493 23/0496 23/051 23/053 23/055 23/057	 C03B 23/26 take precedence) • {in a longitudinal direction, e.g. for upsetting or extrusion} • {for expanding in a radial way, e.g. by forcing a mandrel through a tube or rod} • by gravity, e.g. sagging {(C03B 23/093 takes precedence)} • by centrifuging ({C03B 23/094} , C03B 37/04 takes precedence) • by rolling {(C03B 23/095 takes precedence)} • by fusing, e.g. for flame sealing (C03B 9/42, C03B 21/06 {C03B 23/099} , C03B 33/08 take precedence) • by bending {(C03B 23/096 takes precedence)} • by bending {(C03B 23/096 takes precedence)} • {in only one plane, e.g. for making circular 	25/00 25/02 25/025 25/04 25/06 25/08 25/087 25/093 25/10 25/12	Annealing glass products in a discontinuous way {Glass sheets} in a continuous way with horizontal displacement of the glass products of glass sheets being in a vertical position being in a horizontal position on a fluid support, e.g. a gas or molten metal with vertical displacement of the glass products of glass sheets
23/0493 23/0496 23/051 23/053 23/055 23/057 23/06 23/065	 C03B 23/26 take precedence) • {in a longitudinal direction, e.g. for upsetting or extrusion} • {for expanding in a radial way, e.g. by forcing a mandrel through a tube or rod} • by gravity, e.g. sagging {(C03B 23/093 takes precedence)} • by centrifuging ({C03B 23/094} , C03B 37/04 takes precedence) • by rolling {(C03B 23/095 takes precedence)} • by fusing, e.g. for flame sealing (C03B 9/42, C03B 21/06 {C03B 23/099} , C03B 33/08 take precedence) • by bending {(C03B 23/096 takes precedence)} • {in only one plane, e.g. for making circular neon tubes} 	25/00 25/02 25/025 25/04 25/06 25/08 25/087 25/093 25/10 25/12	Annealing glass products in a discontinuous way {Glass sheets} in a continuous way with horizontal displacement of the glass products of glass sheets of glass sheets of being in a vertical position of being in a horizontal position on a fluid support, e.g. a gas or molten metal with vertical displacement of the glass products of glass sheets Tempering {or quenching} glass products by bringing the hot glass product in contact with a solid cooling surface, e.g. sand grains
23/0493 23/0496 23/051 23/053 23/055 23/057	 C03B 23/26 take precedence) • {in a longitudinal direction, e.g. for upsetting or extrusion} • {for expanding in a radial way, e.g. by forcing a mandrel through a tube or rod} • by gravity, e.g. sagging {(C03B 23/093 takes precedence)} • by centrifuging ({C03B 23/094} , C03B 37/04 takes precedence) • by rolling {(C03B 23/095 takes precedence)} • by fusing, e.g. for flame sealing (C03B 9/42, C03B 21/06 {C03B 23/099} , C03B 33/08 take precedence) • by bending {(C03B 23/096 takes precedence)} • (in only one plane, e.g. for making circular neon tubes) • by blowing, e.g. for making electric bulbs 	25/00 25/02 25/025 25/04 25/06 25/08 25/087 25/093 25/10 25/12 27/00 27/004	Annealing glass products in a discontinuous way {Glass sheets} in a continuous way with horizontal displacement of the glass products of glass sheets of glass sheets of being in a vertical position of being in a horizontal position on a fluid support, e.g. a gas or molten metal with vertical displacement of the glass products of glass sheets Tempering {or quenching} glass products by bringing the hot glass product in contact with a solid cooling surface, e.g. sand grains by using heat of sublimation of solid particles
23/0493 23/0496 23/051 23/053 23/055 23/057 23/06 23/065 23/07	 C03B 23/26 take precedence) • {in a longitudinal direction, e.g. for upsetting or extrusion} • {for expanding in a radial way, e.g. by forcing a mandrel through a tube or rod} • by gravity, e.g. sagging {(C03B 23/093) takes precedence)} • by centrifuging ({C03B 23/094} , C03B 37/04 takes precedence) • by rolling {(C03B 23/095) takes precedence)} • by fusing, e.g. for flame sealing (C03B 9/42, C03B 21/06 {C03B 23/099} , C03B 33/08 take precedence) • by bending {(C03B 23/096) takes precedence)} • {in only one plane, e.g. for making circular neon tubes} • by blowing, e.g. for making electric bulbs {(C03B 23/097) takes precedence)} 	25/00 25/02 25/025 25/04 25/06 25/08 25/087 25/093 25/10 25/12 27/00	Annealing glass products in a discontinuous way Glass sheets in a continuous way with horizontal displacement of the glass products of glass sheets being in a vertical position being in a horizontal position on a fluid support, e.g. a gas or molten metal with vertical displacement of the glass products of glass sheets Tempering {or quenching} glass products by bringing the hot glass product in contact with a solid cooling surface, e.g. sand grains by using heat of sublimation of solid particles by heat treatment, e.g. for crystallisation; Heat
23/0493 23/0496 23/051 23/053 23/055 23/057 23/06 23/065 23/07 23/073	 C03B 23/26 take precedence) • {in a longitudinal direction, e.g. for upsetting or extrusion} • {for expanding in a radial way, e.g. by forcing a mandrel through a tube or rod} • by gravity, e.g. sagging {(C03B 23/093 takes precedence)} • by centrifuging ({C03B 23/094} , C03B 37/04 takes precedence) • by rolling {(C03B 23/095 takes precedence)} • by fusing, e.g. for flame sealing (C03B 9/42, C03B 21/06 {C03B 23/099} , C03B 33/08 take precedence) • by bending {(C03B 23/096 takes precedence)} • {in only one plane, e.g. for making circular neon tubes} • by blowing, e.g. for making electric bulbs {(C03B 23/097 takes precedence)} • {Vacuum-blowing} 	25/00 25/02 25/025 25/04 25/06 25/08 25/087 25/093 25/10 25/12 27/00 27/004	Annealing glass products in a discontinuous way {Glass sheets} in a continuous way with horizontal displacement of the glass products of glass sheets being in a vertical position being in a horizontal position on a fluid support, e.g. a gas or molten metal with vertical displacement of the glass products of glass sheets Tempering {or quenching} glass products by bringing the hot glass product in contact with a solid cooling surface, e.g. sand grains by using heat of sublimation of solid particles by heat treatment, e.g. for crystallisation; Heat treatment of glass products before tempering
23/0493 23/0496 23/051 23/053 23/055 23/057 23/06 23/065 23/07 23/073 23/076	 C03B 23/26 take precedence) • {in a longitudinal direction, e.g. for upsetting or extrusion} • {for expanding in a radial way, e.g. by forcing a mandrel through a tube or rod} • by gravity, e.g. sagging {(C03B 23/093 takes precedence)} • by centrifuging ({C03B 23/094} , C03B 37/04 takes precedence) • by rolling {(C03B 23/095 takes precedence)} • by fusing, e.g. for flame sealing (C03B 9/42, C03B 21/06 {C03B 23/099} , C03B 33/08 take precedence) • by bending {(C03B 23/096 takes precedence)} • {in only one plane, e.g. for making circular neon tubes} • by blowing, e.g. for making electric bulbs {(C03B 23/097 takes precedence)} • {Vacuum-blowing} • {Shrinking the glass tube on to a mandrel} 	25/00 25/02 25/025 25/04 25/06 25/08 25/087 25/093 25/10 25/12 27/00 27/004	Annealing glass products in a discontinuous way {Glass sheets} in a continuous way with horizontal displacement of the glass products of glass sheets being in a vertical position being in a horizontal position on a fluid support, e.g. a gas or molten metal with vertical displacement of the glass products of glass sheets Tempering {or quenching} glass products by bringing the hot glass product in contact with a solid cooling surface, e.g. sand grains by using heat of sublimation of solid particles by heat treatment, e.g. for crystallisation; Heat treatment of glass products before tempering by cooling (C03B 27/008, C03B 27/016 take)
23/0493 23/0496 23/051 23/053 23/055 23/057 23/06 23/065 23/073 23/076 23/08	 C03B 23/26 take precedence) (in a longitudinal direction, e.g. for upsetting or extrusion) (for expanding in a radial way, e.g. by forcing a mandrel through a tube or rod) by gravity, e.g. sagging {(C03B 23/093 takes precedence)} by centrifuging ({C03B 23/094}, C03B 37/04 takes precedence) by rolling {(C03B 23/095 takes precedence)} by fusing, e.g. for flame sealing (C03B 9/42, C03B 21/06 {C03B 23/099}, C03B 33/08 take precedence) by bending {(C03B 23/096 takes precedence)} (in only one plane, e.g. for making circular neon tubes) by blowing, e.g. for making electric bulbs {(C03B 23/097 takes precedence)} {Vacuum-blowing} {Shrinking the glass tube on to a mandrel} to exact dimensions, e.g. calibrating 	25/00 25/02 25/02 25/04 25/06 25/08 25/087 25/093 25/10 25/12 27/00 27/004	Annealing glass products in a discontinuous way {Glass sheets} in a continuous way with horizontal displacement of the glass products of glass sheets of glass sheets of being in a vertical position of being in a horizontal position on a fluid support, e.g. a gas or molten metal of glass sheets Tempering {or quenching} glass products of glass sheets Tempering {or quenching} glass products by bringing the hot glass product in contact with a solid cooling surface, e.g. sand grains by using heat of sublimation of solid particles by heat treatment, e.g. for crystallisation; Heat treatment of glass products before tempering by cooling (C03B 27/008, C03B 27/016 take precedence)
23/0493 23/0496 23/051 23/053 23/055 23/057 23/06 23/065 23/07 23/073 23/076	 C03B 23/26 take precedence) • {in a longitudinal direction, e.g. for upsetting or extrusion} • {for expanding in a radial way, e.g. by forcing a mandrel through a tube or rod} • by gravity, e.g. sagging {(C03B 23/093 takes precedence)} • by centrifuging ({C03B 23/094} , C03B 37/04 takes precedence) • by rolling {(C03B 23/095 takes precedence)} • by fusing, e.g. for flame sealing (C03B 9/42, C03B 21/06 {C03B 23/099} , C03B 33/08 take precedence) • by bending {(C03B 23/096 takes precedence)} • {in only one plane, e.g. for making circular neon tubes} • by blowing, e.g. for making electric bulbs {(C03B 23/097 takes precedence)} • {Vacuum-blowing} • {Shrinking the glass tube on to a mandrel} 	25/00 25/02 25/025 25/04 25/06 25/08 25/087 25/093 25/10 25/12 27/00 27/004 27/008 27/016	Annealing glass products in a discontinuous way {Glass sheets} in a continuous way with horizontal displacement of the glass products of glass sheets of glass sheets of being in a vertical position of being in a horizontal position on a fluid support, e.g. a gas or molten metal with vertical displacement of the glass products of glass sheets Tempering {or quenching} glass products by bringing the hot glass product in contact with a solid cooling surface, e.g. sand grains by using heat of sublimation of solid particles by heat treatment, e.g. for crystallisation; Heat treatment of glass products before tempering by cooling (C03B 27/008, C03B 27/016 take precedence) by absorbing heat radiated from the glass product
23/0493 23/0496 23/051 23/053 23/055 23/057 23/06 23/065 23/073 23/076 23/08	 C03B 23/26 take precedence) {in a longitudinal direction, e.g. for upsetting or extrusion} {for expanding in a radial way, e.g. by forcing a mandrel through a tube or rod} by gravity, e.g. sagging {(C03B 23/093 takes precedence)} by centrifuging ({C03B 23/094} , C03B 37/04 takes precedence) by rolling {(C03B 23/095 takes precedence)} by fusing, e.g. for flame sealing (C03B 9/42, C03B 21/06 {C03B 23/099} , C03B 33/08 take precedence) by bending {(C03B 23/096 takes precedence)} {in only one plane, e.g. for making circular neon tubes} by blowing, e.g. for making electric bulbs {(C03B 23/097 takes precedence)} {Vacuum-blowing} {Shrinking the glass tube on to a mandrel} to exact dimensions, e.g. calibrating Reshaping the ends, e.g. as grooves, threads or 	25/00 25/02 25/025 25/04 25/06 25/08 25/087 25/093 25/10 25/12 27/004 27/004 27/008 27/016 27/016 27/02	Annealing glass products in a discontinuous way {Glass sheets} in a continuous way with horizontal displacement of the glass products of glass sheets of glass or molten metal of glass products of glass sheets Tempering {or quenching} glass products of glass sheets Tempering {or quenching} glass products by bringing the hot glass product in contact with a solid cooling surface, e.g. sand grains by using heat of sublimation of solid particles by heat treatment, e.g. for crystallisation; Heat treatment of glass products before tempering by cooling (C03B 27/008, C03B 27/016 take precedence) by absorbing heat radiated from the glass product using liquid
23/0493 23/0496 23/051 23/053 23/055 23/057 23/06 23/065 23/07 23/073 23/076 23/08 23/09	C03B 23/26 take precedence) • {in a longitudinal direction, e.g. for upsetting or extrusion} • {for expanding in a radial way, e.g. by forcing a mandrel through a tube or rod} • by gravity, e.g. sagging {(C03B 23/093 takes precedence)} • by centrifuging ({C03B 23/094} , C03B 37/04 takes precedence) • by rolling {(C03B 23/095 takes precedence)} • by fusing, e.g. for flame sealing (C03B 9/42, C03B 21/06 {C03B 23/099} , C03B 33/08 take precedence) • by bending {(C03B 23/096 takes precedence)} • {in only one plane, e.g. for making circular neon tubes} • by blowing, e.g. for making electric bulbs {(C03B 23/097 takes precedence)} • {Vacuum-blowing} • • {Shrinking the glass tube on to a mandrel} • to exact dimensions, e.g. calibrating • Reshaping the ends, e.g. as grooves, threads or mouths • {by drawing} • {by pressing}	25/00 25/02 25/025 25/04 25/06 25/08 25/087 25/093 25/10 25/12 27/00 27/004 27/008 27/016 27/02 27/02 27/022	Annealing glass products in a discontinuous way {Glass sheets} in a continuous way with horizontal displacement of the glass products of glass sheets of glass sheets of being in a vertical position of being in a horizontal position on a fluid support, e.g. a gas or molten metal with vertical displacement of the glass products of glass sheets Tempering {or quenching} glass products by bringing the hot glass product in contact with a solid cooling surface, e.g. sand grains by using heat of sublimation of solid particles by heat treatment, e.g. for crystallisation; Heat treatment of glass products before tempering by cooling (C03B 27/008, C03B 27/016 take precedence) by absorbing heat radiated from the glass product using liquid {the liquid being organic, e.g. an oil}
23/0493 23/0496 23/051 23/053 23/055 23/057 23/06 23/065 23/07 23/073 23/076 23/08 23/09 23/091 23/092 23/093	C03B 23/26 take precedence) • {in a longitudinal direction, e.g. for upsetting or extrusion} • {for expanding in a radial way, e.g. by forcing a mandrel through a tube or rod} • by gravity, e.g. sagging {(C03B 23/093) takes precedence)} • by centrifuging ({C03B 23/094} , C03B 37/04 takes precedence) • by rolling {(C03B 23/095) takes precedence)} • by fusing, e.g. for flame sealing (C03B 9/42, C03B 21/06 {C03B 23/099} , C03B 33/08 take precedence) • by bending {(C03B 23/096) takes precedence)} • {in only one plane, e.g. for making circular neon tubes} • by blowing, e.g. for making electric bulbs {(C03B 23/097) takes precedence)} • {Vacuum-blowing} • • {Shrinking the glass tube on to a mandrel} • to exact dimensions, e.g. calibrating • Reshaping the ends, e.g. as grooves, threads or mouths • {by drawing} • {by pressing} • {by gravity, e.g. sagging}	25/00 25/02 25/025 25/04 25/06 25/08 25/087 25/093 25/10 25/12 27/004 27/004 27/008 27/016 27/016 27/02	Annealing glass products in a discontinuous way {Glass sheets} in a continuous way with horizontal displacement of the glass products of glass sheets of glass or molten metal of glass products of glass sheets Tempering {or quenching} glass products of glass sheets Tempering {or quenching} glass products by bringing the hot glass product in contact with a solid cooling surface, e.g. sand grains by using heat of sublimation of solid particles by heat treatment, e.g. for crystallisation; Heat treatment of glass products before tempering by cooling (C03B 27/008, C03B 27/016 take precedence) by absorbing heat radiated from the glass product using liquid
23/0493 23/0496 23/051 23/053 23/055 23/057 23/06 23/065 23/07 23/073 23/076 23/08 23/09 23/091 23/093 23/094	C03B 23/26 take precedence) • {in a longitudinal direction, e.g. for upsetting or extrusion} • {for expanding in a radial way, e.g. by forcing a mandrel through a tube or rod} • by gravity, e.g. sagging {(C03B 23/093 takes precedence)} • by centrifuging ({C03B 23/094}, C03B 37/04 takes precedence) • by rolling {(C03B 23/095 takes precedence)} • by fusing, e.g. for flame sealing (C03B 9/42, C03B 21/06 {C03B 23/099}, C03B 33/08 take precedence) • by bending {(C03B 23/096 takes precedence)} • {in only one plane, e.g. for making circular neon tubes} • by blowing, e.g. for making electric bulbs {(C03B 23/097 takes precedence)} • {Vacuum-blowing} • {Shrinking the glass tube on to a mandrel} • to exact dimensions, e.g. calibrating • Reshaping the ends, e.g. as grooves, threads or mouths • {by drawing} • {by gravity, e.g. sagging} • {by centrifuging}	25/00 25/02 25/02 25/025 25/04 25/06 25/08 25/087 25/093 25/10 25/12 27/00 27/004 27/008 27/012 27/016 27/02 27/022 27/024	Annealing glass products in a discontinuous way {Glass sheets} in a continuous way with horizontal displacement of the glass products of glass sheets of glass sheets of being in a vertical position of being in a horizontal position on a fluid support, e.g. a gas or molten metal with vertical displacement of the glass products of glass sheets Tempering {or quenching} glass products by bringing the hot glass product in contact with a solid cooling surface, e.g. sand grains by using heat of sublimation of solid particles by heat treatment, e.g. for crystallisation; Heat treatment of glass products before tempering by cooling (C03B 27/008, C03B 27/016 take precedence) by absorbing heat radiated from the glass product using liquid {the liquid being organic, e.g. an oil} the liquid being sprayed on the object}
23/0493 23/0496 23/051 23/053 23/055 23/057 23/06 23/065 23/07 23/073 23/076 23/08 23/09 23/091 23/092 23/093 23/095	C03B 23/26 take precedence) • {in a longitudinal direction, e.g. for upsetting or extrusion} • {for expanding in a radial way, e.g. by forcing a mandrel through a tube or rod} • by gravity, e.g. sagging {(C03B 23/093 takes precedence)} • by centrifuging ({C03B 23/094}, C03B 37/04 takes precedence) • by rolling {(C03B 23/095 takes precedence)} • by fusing, e.g. for flame sealing (C03B 9/42, C03B 21/06 {C03B 23/099}, C03B 33/08 take precedence) • by bending {(C03B 23/096 takes precedence)} • {in only one plane, e.g. for making circular neon tubes} • by blowing, e.g. for making electric bulbs {(C03B 23/097 takes precedence)} • {Vacuum-blowing} • {Shrinking the glass tube on to a mandrel} • to exact dimensions, e.g. calibrating • Reshaping the ends, e.g. as grooves, threads or mouths • {by drawing} • {by ressing} • {by centrifuging} • {by rolling}	25/00 25/02 25/02 25/025 25/04 25/06 25/08 25/087 25/093 25/10 25/12 27/00 27/004 27/008 27/012 27/016 27/02 27/022 27/024	Annealing glass products in a discontinuous way {Glass sheets} in a continuous way with horizontal displacement of the glass products of glass sheets of glass or molten metal of the glass products of glass sheets Tempering {or quenching} glass products of glass sheets Tempering {or quenching} glass products by bringing the hot glass product in contact with a solid cooling surface, e.g. sand grains by using heat of sublimation of solid particles by heat treatment, e.g. for crystallisation; Heat treatment of glass products before tempering by cooling (C03B 27/008, C03B 27/016 take precedence) by absorbing heat radiated from the glass product using liquid fthe liquid being organic, e.g. an oil} fthe liquid being a liquid gas, e.g. a cryogenic liquid, liquid nitrogen} fthe liquid being water-based}
23/0493 23/0496 23/051 23/053 23/055 23/057 23/06 23/065 23/07 23/073 23/076 23/08 23/09 23/091 23/092 23/093 23/095 23/096	C03B 23/26 take precedence) • {in a longitudinal direction, e.g. for upsetting or extrusion} • {for expanding in a radial way, e.g. by forcing a mandrel through a tube or rod} • by gravity, e.g. sagging {(C03B 23/093 takes precedence)} • by centrifuging ({C03B 23/094}, C03B 37/04 takes precedence) • by rolling {(C03B 23/095 takes precedence)} • by fusing, e.g. for flame sealing (C03B 9/42, C03B 21/06 {C03B 23/099}, C03B 33/08 take precedence) • by bending {(C03B 23/096 takes precedence)} • {in only one plane, e.g. for making circular neon tubes} • by blowing, e.g. for making electric bulbs {(C03B 23/097 takes precedence)} • {Vacuum-blowing} • {Shrinking the glass tube on to a mandrel} • to exact dimensions, e.g. calibrating • Reshaping the ends, e.g. as grooves, threads or mouths • {by drawing} • {by ressing} • {by gravity, e.g. sagging} • {by rolling} • {by rolling} • {by rolling}	25/00 25/02 25/02 25/025 25/04 25/06 25/08 25/087 25/093 25/10 25/12 27/004 27/008 27/012 27/016 27/02 27/022 27/024 27/026	Annealing glass products in a discontinuous way . {Glass sheets} in a continuous way . with horizontal displacement of the glass products . of glass sheets . o being in a vertical position . being in a horizontal position on a fluid support, e.g. a gas or molten metal . with vertical displacement of the glass products . of glass sheets Tempering {or quenching} glass products . by bringing the hot glass product in contact with a solid cooling surface, e.g. sand grains . by using heat of sublimation of solid particles . by heat treatment, e.g. for crystallisation; Heat treatment of glass products before tempering by cooling (C03B 27/008, C03B 27/016 take precedence) . by absorbing heat radiated from the glass product . using liquid . {the liquid being organic, e.g. an oil} . the liquid being a liquid gas, e.g. a cryogenic liquid, liquid nitrogen} . {the liquid being water-based} . the liquid being a molten metal or a molten salt
23/0493 23/0496 23/051 23/053 23/055 23/057 23/06 23/065 23/07 23/073 23/076 23/08 23/09 23/091 23/092 23/093 23/094 23/095 23/097	C03B 23/26 take precedence) • {in a longitudinal direction, e.g. for upsetting or extrusion} • {for expanding in a radial way, e.g. by forcing a mandrel through a tube or rod} • by gravity, e.g. sagging {(C03B 23/093 takes precedence)} • by centrifuging ({C03B 23/094} , C03B 37/04 takes precedence) • by rolling {(C03B 23/095 takes precedence)} • by fusing, e.g. for flame sealing (C03B 9/42, C03B 21/06 {C03B 23/099} , C03B 33/08 take precedence) • by bending {(C03B 23/096 takes precedence)} • {in only one plane, e.g. for making circular neon tubes} • by blowing, e.g. for making electric bulbs {(C03B 23/097 takes precedence)} • {Vacuum-blowing} • • {Shrinking the glass tube on to a mandrel} • to exact dimensions, e.g. calibrating • Reshaping the ends, e.g. as grooves, threads or mouths • {by drawing} • {by ressing} • {by ressing} • {by centrifuging} • {by rolling} • {by bending} • {by bending} • {by bolowing} • {by bolowing}	25/00 25/02 25/02 25/025 25/04 25/06 25/08 25/087 25/093 25/10 25/12 27/004 27/004 27/008 27/012 27/016 27/02 27/022 27/022 27/024 27/026 27/028 27/03 27/035	Annealing glass products in a discontinuous way {Glass sheets} in a continuous way with horizontal displacement of the glass products of glass sheets rempering {or quenching} glass products of glass sheets Tempering {or quenching} glass products of glass sheets Tempering {or quenching} glass products by bringing the hot glass product in contact with a solid cooling surface, e.g. sand grains by using heat of sublimation of solid particles by heat treatment, e.g. for crystallisation; Heat treatment of glass products before tempering by cooling (C03B 27/008, C03B 27/016 take precedence) by absorbing heat radiated from the glass product using liquid fthe liquid being organic, e.g. an oil} fthe liquid being sprayed on the object} fthe liquid being a liquid gas, e.g. a cryogenic liquid, liquid nitrogen} fthe liquid being a molten metal or a molten salt the liquid being sprayed on the object}
23/0493 23/0496 23/051 23/053 23/055 23/057 23/06 23/065 23/07 23/073 23/076 23/08 23/09 23/091 23/092 23/093 23/095 23/096	C03B 23/26 take precedence) • {in a longitudinal direction, e.g. for upsetting or extrusion} • {for expanding in a radial way, e.g. by forcing a mandrel through a tube or rod} • by gravity, e.g. sagging {(C03B 23/093 takes precedence)} • by centrifuging ({C03B 23/094}, C03B 37/04 takes precedence) • by rolling {(C03B 23/095 takes precedence)} • by fusing, e.g. for flame sealing (C03B 9/42, C03B 21/06 {C03B 23/099}, C03B 33/08 take precedence) • by bending {(C03B 23/096 takes precedence)} • {in only one plane, e.g. for making circular neon tubes} • by blowing, e.g. for making electric bulbs {(C03B 23/097 takes precedence)} • {Vacuum-blowing} • {Shrinking the glass tube on to a mandrel} • to exact dimensions, e.g. calibrating • Reshaping the ends, e.g. as grooves, threads or mouths • {by drawing} • {by ressing} • {by gravity, e.g. sagging} • {by rolling} • {by rolling} • {by rolling}	25/00 25/02 25/02 25/025 25/04 25/06 25/08 25/087 25/093 25/10 25/12 27/004 27/004 27/008 27/012 27/016 27/02 27/022 27/024 27/026 27/028 27/03	Annealing glass products in a discontinuous way . {Glass sheets} in a continuous way . with horizontal displacement of the glass products . of glass sheets . o being in a vertical position . being in a horizontal position on a fluid support, e.g. a gas or molten metal . with vertical displacement of the glass products . of glass sheets Tempering {or quenching} glass products . by bringing the hot glass product in contact with a solid cooling surface, e.g. sand grains . by using heat of sublimation of solid particles . by heat treatment, e.g. for crystallisation; Heat treatment of glass products before tempering by cooling (C03B 27/008, C03B 27/016 take precedence) . by absorbing heat radiated from the glass product . using liquid . {the liquid being organic, e.g. an oil} . the liquid being a liquid gas, e.g. a cryogenic liquid, liquid nitrogen} . {the liquid being water-based} . the liquid being a molten metal or a molten salt

27/0404	• • {Nozzles, blow heads, blowing units or their	33/00	Severing cooled glass (severing glass fibres
	arrangements, specially adapted for flat or bent	22/02	<u>C03B 37/16</u>)
27/0408	glass sheets } {being dismountable}	33/02	 Cutting or splitting sheet glass {or ribbons}; Apparatus or machines therefor (C03B 33/09 takes
27/0403	Stresses, e.g. patterns, values or formulae for flat		precedence; glass-cutting tools <u>C03B 33/10</u>)
27/0413	or bent glass sheets}	33/0207	• • {the sheet being in a substantially vertical plane}
27/0417	• • {Controlling or regulating for flat or bent glass	33/0215	• • (the ribbon being in a substantially vertical
	sheets}		plane}
27/0422	• • {for flat or bent glass sheets starting in an	33/0222	• • {Scoring using a focussed radiation beam, e.g.
	horizontal position and ending in a non-horizontal		laser}
	position}	33/023	• the sheet {or ribbon} being in a horizontal
27/0426	• • • {for bent glass sheets}	22/0225	position
27/0431	• • • • {the quench unit being adapted to the bend of the sheet (C03B 27/0435 takes precedence)}	33/0235	{Ribbons}
27/0435	• • • {the quench unit being variably adaptable to	33/027	Scoring tool holders; Driving mechanisms therefor
2770133	the bend of the sheet}	33/03	Glass cutting tables; Apparatus for transporting
27/044	for flat or bent glass sheets being in a horizontal	33/03	or handling sheet glass during the cutting or
	position		breaking operations
27/0442	• • { for bent glass sheets }	33/033	• • • Apparatus for opening score lines in glass
27/0445	• • • {the quench unit being adapted to the bend of		sheets
2=10.1.1=	the sheet (<u>C03B 27/0447</u> takes precedence)}	33/037	Controlling or regulating
27/0447	• • • { the quench unit being variably adaptable to the bend of the sheet}	33/04	• Cutting or splitting in curves, especially for
27/048	• • • on a gas cushion	33/06	making spectacle lenses Cutting or splitting glass tubes, rods, or hollow
27/048	 for flat or bent glass sheets being in a vertical 	33/00	products (C03B 33/09 takes precedence)
21/032	position	33/07	• Cutting armoured, {multi-layered, coated} or
27/0522	• • • {Nozzles, blow heads, blowing units or their		laminated, glass products
	arrangements}	33/072	• • {Armoured glass, i.e. comprising reinforcement}
27/0524	• • • {being dismountable}	33/074	• • {Glass products comprising an outer layer or
27/0526	• • {Stresses, e.g. patterns, values or formulae}		surface coating of non-glass material}
27/0528	{Controlling or regulating}	33/076	• • {Laminated glass comprising interlayers}
27/056	supported on the lower edge	33/078	• • {Polymeric interlayers}
27/06	for glass products other than flat or bent glass	33/08	• by fusing {, i.e. by melting through the glass}
27/062	plates, e.g. hollow glassware, lenses • • {Nozzles or blow-heads, e.g. tubes}	33/082	• • {using a focussed radiation beam, e.g. laser (C03B 33/0855 takes precedence)}
27/062	{Stresses, e.g. patterns, values or formulae}	33/085	Tubes, rods or hollow products
27/067	{Controlling or regulating}	33/0855	• • • {using a focussed radiation beam, e.g. laser}
	, , , , , , , , , , , , , , , , , , , ,	33/09	 by thermal shock
29/00	Reheating glass products for softening or fusing	33/091	• • {using at least one focussed radiation beam, e.g.
20/02	their surfaces; Fire-polishing; Fusing of margins		laser beam (<u>C03B 33/0955</u> takes precedence)}
29/02 29/025	in a discontinuous way{Glass sheets}	33/093	• • { using two or more focussed radiation beams}
29/023	in a continuous way	33/095	Tubes, rods or hollow products
29/04	with horizontal displacement of the products	33/0955	• • • {using a focussed radiation beam, e.g. laser}
29/08	Glass sheets	33/10	• Glass-cutting tools, e.g. scoring tools
29/10	• • • being in a vertical position	33/102	• • {involving a focussed radiation beam, e.g. lasers}
29/12	being in a horizontal position on a fluid	33/105	• • {Details of cutting or scoring means, e.g. tips}
	support, e.g. a gas or molten metal	33/107	. • {Wheel design, e.g. materials, construction, shape}
29/14	with vertical displacement of the products	33/12	• Hand tools (wheel design C03B 33/107)
29/16	Glass sheets	33/14	• • • specially adapted for cutting tubes, rods,
31/00	Manufacture of rippled or crackled glass		or hollow products {(for cutting ampoules B67B 7/92)}
32/00	Thermal after-treatment of glass products	25/00	
	not provided for in groups $\{\underline{\text{C03B 19/00}}\}$,	35/00	Transporting of glass products during their manufacture, {e.g. hot glass lenses,
	C03B 25/00 - C03B 31/00 (or C03B 37/00), e.g. crystallisation, eliminating gas inclusions or other		prisms}(conveying systems for fragile sheets, e.g.
	impurities; {Hot-pressing vitrified, non-porous,		glass <u>B65G 49/06</u>)
	shaped glass products}	35/005	• {Transporting hot solid glass products other than
32/005	• {Hot-pressing vitrified, non-porous, shaped glass		sheets or rods, e.g. lenses, prisms, by suction or
	products}		floatation}
32/02	Thermal crystallisation, e.g. for crystallising glass	35/04	• Transporting of hot hollow {or semi-hollow} glass
	bodies into glass-ceramic articles {(C03B 27/012	35/06	products (<u>C03B 35/26</u> takes precedence) • Feeding of hot hollow glass products into
	takes precedence)}	33/00	annealing or heating kilns

35/062	• • • {using conveyors, e.g. chain- or roller	35/188	{Rollers specially adapted for supplying a
25/064	conveyors, dead-plates}		gas, e.g. porous or foraminous rollers with internal air supply }
35/064	• • • {specially adapted as a lehr loader}	35/189	{Disc rollers}
35/066	• • • • {combined with article distributing means, e.g. pivoting deflectors, arresting fingers,	33/107	NOTE
27/040	stationary guides}		{ Disc rollers having a discontinuous
35/068	• • • {by gravitational force, e.g. via chutes}		surface are also classified in
35/08	 using rotary means directly acting on the products 		C03B 35/185.}
35/085	{Transfer mechanisms of the "endless-chain"	35/20	• • by gripping tongs or supporting frames
	type}	35/202	• • • Systraphing tongs of supporting frames • • • • {by supporting frames (C03B 35/145 takes}
35/10	using reciprocating means directly acting on	33/202	precedence)}
	the products, e.g. pushers, stackers	35/205	• • • {the glass sheets being in a vertical position}
35/12	by picking-up and depositing	35/207	{Construction or design of supporting
35/125	• • • • {Transfer mechanisms of the "rotary" type, e.g. "take-outs", "setting-over" mechanisms}		frames}
35/14	• Transporting hot glass sheets {or ribbons, e.g. by	35/22	• on a fluid support bed, e.g. on molten metal
33/14	heat-resistant conveyor belts or bands}	35/24	on a gas support bed
35/142	• • {by travelling transporting tables}	35/243	• • • • {having a non-planar surface, e.g. curved, for
35/145	• • (by top-side transfer or supporting devices, e.g.	25/246	bent sheets}
20/1.0	lifting or conveying using suction}	35/246	• • • {Transporting continuous glass ribbons}
35/147	• • · {of the non-contact type}	35/26	• Transporting of glass tubes or rods
35/16	• • by roller conveyors	37/00	Manufacture or treatment of flakes, fibres, or
35/161	• • • {specially adapted for bent sheets or ribbons		filaments from softened glass, minerals, or slags
	(<u>C03B 35/166</u> takes precedence)}	37/005	. Manufacture of flakes
35/162	• • • {combined with means for thermal adjustment	37/01	Manufacture of glass fibres or filaments
	of the rollers, e.g. cooling (<u>C03B 35/183</u> takes precedence)}	37/011	• • {starting from a liquid phase reaction process, e.g. through a gel phase}
35/163	• • {Drive means, clutches, gearing or drive speed	37/012	Manufacture of preforms for drawing fibres or
33/103	control means}	37/012	filaments
35/164	{electric or electronicsystems therefor, e.g.	37/01202	{Means for storing or carrying optical fibre
	for automatic control}		preforms, e.g. containers}
35/165	• • • {Supports or couplings for roller ends, e.g. trunions, gudgeons}	37/01205	• • • {starting from tubes, rods, fibres or filaments (C03B 37/014 takes precedence)}
35/166	• • • {specially adapted for both flat and bent sheets	37/01208	
	or ribbons}		photonic crystal or holey optical fibres}
35/167	 • { specially adapted for removing defect sheets, ribbons or parts thereof} 	37/01211	• • • {by inserting one or more rods or tubes into a tube}
35/168	{Means for cleaning the rollers}	37/01214	{for making preforms of multifibres, fibre
35/18	Construction of the conveyor rollers {;		bundles other than multiple core preforms}
	Materials, coatings or coverings thereof}	37/01217	• • • • (for making preforms of polarisation-maintaining optical fibres (polarisation-
35/181	 {Materials, coatings, loose coverings or sleeves thereof}		maintaining optical fibres per se
35/182	• • • { specially adapted for bent sheets or ribbons		G02B 6/105)}
33/102	(C03B 35/187 takes precedence)	37/0122	• • • • {for making preforms of photonic crystal,
35/183	{specially adapted for thermal adjustment of		microstructured or holey optical fibres}
	the rollers, e.g. insulating, heating, cooling	37/01222	• • • • {for making preforms of multiple core
	thereof}		optical fibres (preforms of multifibres
35/184	{Cooling}		<u>C03B 37/01214</u>)}
35/185	• • • {having a discontinuous surface for	37/01225	• • • • {Means for changing or stabilising the shape,
	contacting the sheets or ribbons other than		e.g. diameter, of tubes or rods in general, e.g.
	cloth or fabric, e.g. having protrusions or	27/01220	collapsing}
	depressions, spirally wound cable, projecting	37/01228	{Removal of preform material
	discs or tires}	27/01221	(C03B 37/01251 takes precedence)
	NOTE	37/01231	drilling}
	{Disc rollers having a discontinuous	37/01234	(
	surface are also classified in		chamfering}
	<u>C03B 35/189</u> .}	37/01237	
35/186	• • • {End caps, end fixtures or roller end shape	27/0124	polishing, e.g. fire-polishing}
	designs}	37/0124	• • • • • {Means for reducing the diameter of rods or tubes by drawing, e.g. for preform
35/187	• • • • {Rollers specially adapted for both flat		or tubes by drawing, e.g. for preform draw-down}
	and bent sheets or ribbons, i.e. rollers of		aran ao mij
	adjustable curvature}		

37/01242 {Controlling or regulating the down-	37/01466 {Means for changing or stabilising
draw process}	the diameter or form of tubes or rods (C03B 37/01861 takes precedence)}
37/01245 {by drawing and collapsing} 37/01248 {by collapsing without drawing}	37/01473 {Collapsing}
37/01251 {Reshaping the ends}	37/0148 {Means for heating preforms during
37/01254 {keshaping the ends}	or immediately prior to deposition
mandrel through or axial pressing a tube or rod}	(<u>C03B 37/0142</u> , <u>C03B 37/01876</u> take precedence)}
37/01257 {Heating devices therefor}	37/01486 {Means for supporting, rotating or translating
37/0126 {Means for supporting, rotating,	the preforms being formed, e.g. lathes
translating the rod, tube or preform}	(<u>C03B 37/01884</u> takes precedence)}
37/01262 {Depositing additional preform material as	37/01493 {Deposition substrates, e.g. targets,
liquids or solutions, e.g. solution doping of	mandrels, start rods or tubes}
preform tubes or rods}	37/016 by a liquid phase reaction process, e.g.
37/01265 {starting entirely or partially from molten glass,	through a gel phase
e.g. by dipping a preform in a melt}	37/018 by glass deposition on a glass substrate, e.g. by {inside-, modified-, plasma-, or plasma
37/01268 {by casting}	modified- chemical vapour deposition
37/01271 {by centrifuging}	[ICVD, MCVD, PCVD, PMCVD], i.e. by
37/01274 {by extrusion or drawing}	thin layer coating on the inside or outside of
37/01277 {by projecting or spraying the melt, e.g. as droplets, on a preform}	a glass tube or on a glass rod}(C03B 37/016
37/0128 {starting from pulverulent glass}	takes precedence; {bulk deposition of porous
37/01282 {starting from purveturent grass}	glass by OVD or VAD <u>C03B 37/014</u> };
37/01285 {by centrifuging}	surface treatment of glass by coating C03C 17/02)
37/01288 {by extrusion, e.g. of glass powder and	37/01807 {Reactant delivery systems, e.g. reactant
binder (moulding plastics around a core	deposition burners}
using a cross-head annular extrusion nozzle	37/01815 {Reactant deposition burners or
B29C 48/34; extrusion presses in general	deposition heating means}
<u>B30B 11/22</u>)}	37/01823 {Plasma deposition burners or heating
37/01291 {by progressive melting, e.g. melting glass powder during delivery to and adhering the	means}
so-formed melt to a target or preform, e.g.	37/0183 {for plasma within a tube substrate}
the Plasma Oxidation Deposition [POD]	37/01838 (for delivering and depositing additional
process}	reactants as liquids or solutions, e.g. for solution doping of the deposited glass}
37/01294 {by delivering pulverulent glass to the	37/01846 {Means for after-treatment or catching of
deposition target or preform where the	worked reactant gases}
powder is progressively melted, e.g.	37/01853 {Thermal after-treatment of preforms, e.g.
accretion} 37/01297 {by melting glass powder in a mould}	dehydrating, consolidating, sintering}
37/014 made entirely or partially by chemical means	37/01861 (Means for changing or stabilising the
{, e.g. vapour phase deposition of bulk porous	diameter or form of tubes or rods}
glass either by outside vapour deposition	37/01869 {Collapsing}
[OVD], or by outside vapour phase oxidation	37/01876 {Means for heating tubes or rods during
[OVPO] or by vapour axial deposition [VAD]	or immediately prior to deposition, e.g. electric resistance heaters (C03B 37/01815)
$(\underline{\text{C03C }17/02} \text{ takes precedence})$	takes precedence)}
37/01406 {Deposition reactors therefor}	37/01884 {Means for supporting, rotating and
37/01413 {Reactant delivery systems (<u>C03B 37/01807</u>	translating tubes or rods being formed, e.g.
takes precedence; devices therefor in general B01D 1/00, B01J 4/00)}	lathes}
37/0142 {Reactant deposition burners}	37/01892 {Deposition substrates, e.g. tubes,
37/01426 {Plasma deposition burners or torches}	mandrels}
37/01433 {for delivering and depositing additional	37/02 by drawing or extruding, {e.g. direct drawing of
reactants as liquids or solutions, e.g.	molten glass from nozzles; Cooling fins therefor (C03B 37/04 takes precedence; sizing of the
for solution doping of the porous glass	fibres C03C 25/00)}
preform}	37/0203 {Cooling non-optical fibres drawn or extruded
37/0144 {Means for after-treatment or catching of worked reactant gases (C03B 37/01846 takes	from bushings, nozzles or orifices}
precedence)}	37/0206 {by contacting of the fibres with liquid or
37/01446 {Thermal after-treatment of preforms,	mist}
e.g. dehydrating, consolidating, sintering	37/0209 • • • {by means of a solid heat sink, e.g. cooling
(<u>C03B 37/01853</u> takes precedence)}	fins) (by forced ass cooling i.e. blowing or
37/01453 {for doping the preform with flourine}	37/0213 • • • {by forced gas cooling, i.e. blowing or suction}
37/0146 {Furnaces therefor, e.g. muffle tubes,	
furnace linings}	

37/0216	• • • {Solving the problem of disruption of drawn	37/032	• • • {for glass optical fibres}
37/0210	fibre, e.g. breakage, start-up, shut-down	37/032	having means for deflecting or stripping-off
	procedures}	31/033	fibres {or for removing defective parts}
37/022	from molten glass in which the resultant	37/04	• • by using centrifugal force {, e.g. spinning through
	product consists of different sorts of glass or		radial orifices; Construction of the spinner cups
	is characterised by shape, e.g. hollow fibres		therefor (bonder application <u>C03C 25/00</u>)}
	{, undulated fibres, fibres presenting a rough	37/041	• • • {Transferring molten glass to the spinner}
37/023	surface (C03B 37/025 takes precedence)} Fibres composed of different sorts of glass,	37/042	• • { starting from tubes, rods, fibres or filaments }
31/023	{e.g. glass optical fibres, made by the double	37/044	• • • {for producing fibres of at least two distinct
	crucible technique}		glass compositions, e.g. bi-component fibres (conjugated artificial filaments or the like, e.g.
37/0235	{Thermal treatment of the fibre during		with glass fibres, <u>D01F 8/00</u>)}
	the drawing process, e.g. cooling	37/045	• • • {Construction of the spinner cups}
	(C03B 37/02718 takes precedence; coating	37/047	• • { Selection of materials for the spinner cups }
25/025	<u>C03C 25/10</u>)}	37/048	• • • {Means for attenuating the spun fibres, e.g.
37/025	 from reheated softened tubes, rods, fibres or filaments {, e.g. drawing fibres from preforms 		blowers for spinner cups}
	(draw-down of tubes, rods or preforms to	37/05	• • • by projecting {molten glass} on a rotating body
	reduced diameter preforms C03B 37/0124)}		having no radial orifices
37/0253	{Controlling or regulating (for glass fibre	37/055	• • • • (by projecting onto and spinning off the
	manufacture in general C03B 37/07)}	37/06	outer surface of the rotating body} by blasting or blowing molten glass, e.g. for
37/0256	• • • • {Drawing hollow fibres (<u>C03B 37/02781</u>	37/00	making staple fibres
	takes precedence)}	37/065	• • • starting from tubes, rods, fibres or filaments
37/026	Drawing fibres reinforced with a metal wire	37/07	• Controlling or regulating ({C03B 37/0253 takes
37/027	{or with other non-glass material} Fibres composed of different sorts of glass,		precedence } ; controlling or regulating in general
31/021	{e.g. glass optical fibres}(C03B 37/0253,		<u>G05</u>)
	C03B 37/028 take precedence)	37/075	• Manufacture of {non-optical} fibres or filaments
37/02709	{Polarisation maintaining fibres, e.g. PM,		consisting of different sorts of glass or characterised by shape, e.g. undulated fibres (C03B 37/022,
	PANDA, bi-refringent optical fibres}		C03B 37/027, C03B 37/028 take precedence; light
37/02718	• • • • {Thermal treatment of the fibre during		guides <u>G02B 6/00</u>)
	the drawing process, e.g. cooling (coating	37/0753	• • {consisting of different sorts of glass, e.g. bi-
37/02727	C03C 25/10)} {Annealing or re-heating}		component fibres}
	{Means for supporting, rotating or feeding	37/0756	• • {Hollow fibres}
31/02/30	the tubes, rods, fibres or filaments to be	37/08	• Bushings {, e.g. construction, bushing
	drawn, e.g. fibre draw towers, preform		reinforcement means}; Spinnerettes; Nozzles; Nozzle plates
	alignment, butt-joining preforms or	37/0805	Manufacturing, repairing, or other treatment of
	dummy parts during feeding (uniting rods	3110003	bushings, nozzles or bushing nozzle plates}
27/02745	or tubes <u>C03B 23/207</u>)}	37/081	Indirect-melting bushings
31/02143	• • • • {Fibres having rotational spin around the central longitudinal axis, e.g. alternating	37/083	• Nozzles; Bushing nozzle plates (C03B 37/095
	+/- spin to reduce polarisation mode		takes precedence)
	dispersion}	37/085	Feeding devices therefor
37/02754	{Solid fibres drawn from hollow	37/09	electrically heated
	preforms}	37/091	{Indirect-resistance heating}
37/02763	• • • • • Fibres having axial variations, e.g.	37/092	Direct-resistance heating Use of materials therefor
	axially varying diameter, material or optical properties (rotational spin	37/095 37/10	Non-chemical treatment (surface treatment of fibres)
	C03B 37/02745)}	37/10	or filaments made from glass, minerals or slags
37/02772	{shaping the preform lower end or		C03C 25/00)
	bulb, e.g. pre-gobbing, controlling draw	37/12	. of fibres or filaments during winding up
	bulb shape, or preform draw start-up	37/14	• Re-forming fibres or filaments, {i.e. changing
	procedures}		their shape \{\(\frac{C03B}{37}\)\(\frac{37}{025}\) takes precedence\)
37/02781	{Hollow fibres, e.g. holey fibres}	37/15	with heat application, e.g. for making
37/0279	• • • • {Photonic crystal fibres or microstructured optical fibres other than holey optical		optical fibres (fusion-splicing of light guides G02B 6/255; treatment of light guides to
	fibres}		shape optical elements {G02B 6/2835,
37/028	Drawing fibre bundles, e.g. for making		G02B 6/2856})
	fibre bundles of multifibres {, image fibres;	37/16	• Cutting or severing (light guides <u>G02B 6/25</u>)
	(drawing multicore or photonic crystal fibres	40/00	Preventing adhesion between glass and glass or
27/020	C03B 37/027)}	20/00	between glass and the means used to shape it {,
37/029 37/03	 Furnaces therefor Drawing means, e.g. drawing drums {; Traction		hold it or support it}
51/03	or tensioning devices}	40/005	• {Fabrics, felts or loose covers}

40/02	hy lubrication. Has of materials as release or	2201/92	Jonia on single emistel type a g. NaE LiE CaE
40/02	 by lubrication; Use of materials as release or lubricating compositions 	2201/83 2201/84	 Ionic or single crystal type, e.g. NaF, LiF, CaF₂ Halide glasses other than fluoride glasses, i.e. Cl,
40/027	Apparatus for applying lubricants to glass shaping	2201/64	Br or I glasses, e.g. AgCl-AgBr "glass"
40/02/	moulds or tools	2201/86	Chalcogenide glasses, i.e. S, Se or Te glasses
40/033	Means for preventing adhesion between glass and	2201/88	Chalcohalide glasses, i.e. containing one or more
	glass	2201,00	of S, Se, Te and one or more of F, Cl, Br, I
40/04	using gas		
		2203/00	Fibre product details, e.g. structure, shape
		2203/02	External structure or shape details
2201/00	T	2203/04	Polygonal outer cross-section, e.g. triangular,
2201/00	Type of glass produced	2202/06	square
2201/01	Antique glass imitations Pure silies places a group fixed quests	2203/06	Axial perturbations, e.g. twist, by torsion, undulating, crimped
2201/02 2201/03	Pure silica glass, e.g. pure fused quartz Impurity concentration specified	2203/10	Internal structure or shape details
2201/03	Hydroxyl ion (OH)	2203/10	Non-circular or non-elliptical cross-section, e.g.
2201/04	Doped silica-based glasses	2203/12	planar core
2201/00	Impurity concentration specified	2203/14	Non-solid, i.e. hollow products, e.g. hollow clad
2201/075	Hydroxyl ion (OH)		or with core-clad interface
2201/08	doped with boron or fluorine or other refractive	2203/16	Hollow core
2201/00	index decreasing dopant	2203/18	Axial perturbations, e.g. in refractive index or
2201/10	doped with boron (<u>C03B 2201/14</u> takes		composition
	precedence)	2203/19	Alternating positive/negative spins or twists
2201/12	doped with fluorine (C03B 2201/14 takes	2203/20	helical
	precedence)	2203/22	Radial profile of refractive index, composition or
2201/14	doped with boron and fluorine		softening point
2201/20	doped with non-metals other than boron or	2203/222	Mismatching viscosities or softening points of
	fluorine	2202/222	glass layers
2201/21	doped with molecular hydrogen	2203/223	Matching viscosities or softening points of glass layers
2201/22	doped with deuterium	2203/224	Mismatching coefficients of thermal expansion
2201/23	doped with hydroxyl groups	2203/224	[CTE] of glass layers
2201/24	doped with nitrogen, e.g. silicon oxy-nitride	2203/225	Matching coefficients of thermal expansion
	glasses		[CTE] of glass layers
	<u>NOTE</u>	2203/23	Double or multiple optical cladding profiles
	Codes C03B 2201/28, C03B 2201/31 and	2203/24	Single mode [SM or monomode]
	$\underline{\text{C03B } 2201/32}$ for the common dopants P,	2203/26	Parabolic or graded index [GRIN] core profile
	Ge and Al respectively, are only used for	2203/28	Large core fibres, e.g. with a core diameter
	features specific to such dopants and not		greater than 60 micrometers
	for general cases, such as for increasing the refractive index of silica glass.	2203/29	Segmented core fibres
	refractive fluex of sinea glass.	2203/30	• Polarisation maintaining [PM], i.e. birefringent
2201/28	doped with phosphorus		products, e.g. with elliptical core, by use of stress rods, "PANDA" type fibres
2201/30	doped with metals, e.g. Ga, Sn, Sb, Pb or Bi	2203/302	Non-circular core cross-sections
2201/31	doped with germanium	2203/302	by use of stress-imparting rods, e.g. by insertion
2201/32	doped with aluminium (<u>C03B 2201/36</u> takes	2203/31	Eccentric core or cladding
	precedence)	2203/32	Plural core other than bundles, e.g. double core
2201/34	doped with rare earth metals, i.e. with Sc, Y or	2203/34	Dispersion modified fibres, e.g. wavelength or
2201/26	lanthanides, e.g. for laser-amplifiers	2200,00	polarisation shifted, flattened or compensating
2201/36	doped with rare earth metals and aluminium, e.g. Er-Al co-doped		fibres (DSF, DFF, DCF)
2201/40	doped with transition metals other than rare	2203/40	• Multifibres or fibre bundles, e.g. for making image
2201/40	earth metals, e.g. Zr, Nb, Ta or Zn		fibres
2201/42	doped with titanium	2203/42	• Photonic crystal fibres, e.g. fibres using the
2201/50	doped with alkali metals		photonic bandgap PBG effect, microstructured or
2201/54	doped with beryllium, magnesium or alkaline		holey optical fibres
	earth metals	2205/00	Fibre drawing or extruding details
2201/58	doped with metals in non-oxide form, e.g.	2205/02	Upward drawing
	CdSe	2205/04	Non-vertical drawing
2201/60	Silica-free oxide glasses	2205/06	Rotating the fibre fibre about its longitudinal axis
2201/62	containing boron	2205/07	Rotating the preform about its longitudinal axis
2201/70	containing phosphorus	2205/08	Sub-atmospheric pressure applied, e.g. vacuum
2201/78	containing germanium	2205/09	to the outside of the preform or fibre
2201/80	Non-oxide glasses or glass-type compositions	2205/10	pressurised

2205/10 • pressurised

2201/80 . Non-oxide glasses or glass-type compositions

2201/82 . . Fluoride glasses, e.g. ZBLAN glass

2205/12	• Drawing solid optical fibre directly from a hollow	2205/83	using cas
	preform		using gas
2205/13	from a hollow glass tube containing glass-	2205/90	. Manipulating the gas flow through the furnace other than by use of upper or lower seals, e.g. by
2203/13	forming material in particulate form, e.g. to form		modification of the core tube shape or by using
	the core by melting the powder during drawing		baffles
2205/14	comprising collapse of an outer tube onto an inner	2205/91	by controlling the furnace gas flow rate into or
2203/14	central solid preform rod	2203/71	out of the furnace
2205/16	• the drawn fibre consisting of circularly symmetric	2205/92	using means for gradually reducing the cross-
2203/10	core and clad	2203/72	section towards the outlet or around the
2205/20	Irradiation of the base fibre during drawing to		preform draw end, e.g. tapered
2203/20	modify waveguide properties	2205/96	using tangential feed approximately
2205/30	Means for continuous drawing from a preform	2203/70	perpendicular to the draw axis
2205/30	Simultaneous drawing of multiple preforms to	2205/98	using annular gas inlet distributors
2203/32	separate multiple fibres	2200,70	-
2205/40	Monitoring or regulating the draw tension or draw	2207/00	Glass deposition burners
2203/10	rate	2207/02	Elongated flat flame or slit-nozzle type
2205/42	• Drawing at high speed, i.e. > 10 m/s	2207/04	Multi-nested ports
2205/44	Monotoring or regulating the preform feed rate	2207/06	Concentric circular ports
2205/45	Monotoring or regulating the preform neck-down	2207/08	Recessed or protruding ports
2203/43	region with respect to position or shape	2207/10	Split ports
2205/46	Monotoring or regulating the preform position with	2207/12	Nozzle or orifice plates
2203/40	respect to the draw axis	2207/14	Tapered or flared nozzles or ports angled to
2205/47	Shaping the preform draw bulb before or during		central burner axis
2203/47	drawing	2207/16	Non-circular ports, e.g. square or oval
2205/50	Cooling the drawn fibre using liquid coolant prior to	2207/18	Eccentric ports
2203/30	coating, e.g. indirect cooling via cooling jacket	2207/20	Specific substances in specified ports, e.g. all gas
2205/51	using liquified or cryogenic gas		flows specified
2205/51	by direct contact with liquid coolant, e.g. as	2207/22	Inert gas details
2203/32	spray, mist	2207/24	Multiple flame type, e.g. double-concentric flame
2205/53		2207/26	. Multiple ports for glass precursor
	by passage through liquid coolant bath	2207/28	for different glass precursors, reactants or
2205/54	After-treatment to remove coolant attached to cooled fibre	2207/20	modifiers
2205/55	Cooling or annealing the drawn fibre prior to	2207/30	For glass precursor of non-standard type, e.g. solid
2203/33	coating using a series of coolers or heaters	2207730	SiH ₃ F
2205/56		2207/22	. Non-halide
	Annaeling or re heating the drawn fibre prior to	2207/32	
2203/30	Annealing or re-heating the drawn fibre prior to	2207/32 2207/34	
	coating	2207/34	. Liquid, e.g. mist or aerosol
2205/57	coating Recovering, recycling or purifying the coolant, e.g.		Liquid, e.g. mist or aerosolFuel or oxidant details, e.g. flow rate, flow rate
2205/57	coatingRecovering, recycling or purifying the coolant, e.g. helium	2207/34 2207/36	 Liquid, e.g. mist or aerosol Fuel or oxidant details, e.g. flow rate, flow rate ratio, fuel additives
2205/57 2205/60	 coating Recovering, recycling or purifying the coolant, e.g. helium Optical fibre draw furnaces 	2207/34	 Liquid, e.g. mist or aerosol Fuel or oxidant details, e.g. flow rate, flow rate ratio, fuel additives Fuel combinations or non-standard fuels, e.g.
2205/57	 coating Recovering, recycling or purifying the coolant, e.g. helium Optical fibre draw furnaces Recovering, recycling or purifying the inert gas, 	2207/34 2207/36 2207/38	 Liquid, e.g. mist or aerosol Fuel or oxidant details, e.g. flow rate, flow rate ratio, fuel additives Fuel combinations or non-standard fuels, e.g. H₂+CH₄, ethane
2205/57 2205/60 2205/61	 coating Recovering, recycling or purifying the coolant, e.g. helium Optical fibre draw furnaces Recovering, recycling or purifying the inert gas, e.g. helium 	2207/34 2207/36 2207/38 2207/40	 Liquid, e.g. mist or aerosol Fuel or oxidant details, e.g. flow rate, flow rate ratio, fuel additives Fuel combinations or non-standard fuels, e.g. H₂+CH₄, ethane Mechanical flame shields
2205/57 2205/60 2205/61 2205/62	 coating Recovering, recycling or purifying the coolant, e.g. helium Optical fibre draw furnaces Recovering, recycling or purifying the inert gas, e.g. helium Heating means for drawing 	2207/34 2207/36 2207/38	 Liquid, e.g. mist or aerosol Fuel or oxidant details, e.g. flow rate, flow rate ratio, fuel additives Fuel combinations or non-standard fuels, e.g. H₂+CH₄, ethane Mechanical flame shields Assembly details; Material or dimensions of burner;
2205/57 2205/60 2205/61	coating Recovering, recycling or purifying the coolant, e.g. helium Optical fibre draw furnaces Recovering, recycling or purifying the inert gas, e.g. helium Heating means for drawing Ohmic resistance heaters, e.g. carbon or	2207/34 2207/36 2207/38 2207/40 2207/42	 Liquid, e.g. mist or aerosol Fuel or oxidant details, e.g. flow rate, flow rate ratio, fuel additives Fuel combinations or non-standard fuels, e.g. H₂+CH₄, ethane Mechanical flame shields Assembly details; Material or dimensions of burner; Manifolds or supports
2205/57 2205/60 2205/61 2205/62 2205/63	 coating Recovering, recycling or purifying the coolant, e.g. helium Optical fibre draw furnaces Recovering, recycling or purifying the inert gas, e.g. helium Heating means for drawing Ohmic resistance heaters, e.g. carbon or graphite resistance heaters 	2207/34 2207/36 2207/38 2207/40	 Liquid, e.g. mist or aerosol Fuel or oxidant details, e.g. flow rate, flow rate ratio, fuel additives Fuel combinations or non-standard fuels, e.g. H₂+CH₄, ethane Mechanical flame shields Assembly details; Material or dimensions of burner; Manifolds or supports Comprising performance enhancing means, e.g.
2205/57 2205/60 2205/61 2205/62	 coating Recovering, recycling or purifying the coolant, e.g. helium Optical fibre draw furnaces Recovering, recycling or purifying the inert gas, e.g. helium Heating means for drawing Ohmic resistance heaters, e.g. carbon or graphite resistance heaters Induction furnaces, i.e. HF/RF coil, e.g. of the 	2207/34 2207/36 2207/38 2207/40 2207/42 2207/46	 Liquid, e.g. mist or aerosol Fuel or oxidant details, e.g. flow rate, flow rate ratio, fuel additives Fuel combinations or non-standard fuels, e.g. H₂+CH₄, ethane Mechanical flame shields Assembly details; Material or dimensions of burner; Manifolds or supports Comprising performance enhancing means, e.g. electrostatic charge or built-in heater
2205/57 2205/60 2205/61 2205/62 2205/63 2205/64	 coating Recovering, recycling or purifying the coolant, e.g. helium Optical fibre draw furnaces Recovering, recycling or purifying the inert gas, e.g. helium Heating means for drawing Ohmic resistance heaters, e.g. carbon or graphite resistance heaters Induction furnaces, i.e. HF/RF coil, e.g. of the graphite or zirconia susceptor type 	2207/34 2207/36 2207/38 2207/40 2207/42 2207/46 2207/50	 Liquid, e.g. mist or aerosol Fuel or oxidant details, e.g. flow rate, flow rate ratio, fuel additives Fuel combinations or non-standard fuels, e.g. H₂+CH₄, ethane Mechanical flame shields Assembly details; Material or dimensions of burner; Manifolds or supports Comprising performance enhancing means, e.g. electrostatic charge or built-in heater Multiple burner arrangements
2205/57 2205/60 2205/61 2205/62 2205/63	 coating Recovering, recycling or purifying the coolant, e.g. helium Optical fibre draw furnaces Recovering, recycling or purifying the inert gas, e.g. helium Heating means for drawing Ohmic resistance heaters, e.g. carbon or graphite resistance heaters Induction furnaces, i.e. HF/RF coil, e.g. of the graphite or zirconia susceptor type Microwave or similar electromagnetic wave 	2207/34 2207/36 2207/38 2207/40 2207/42 2207/46 2207/50 2207/52	 Liquid, e.g. mist or aerosol Fuel or oxidant details, e.g. flow rate, flow rate ratio, fuel additives Fuel combinations or non-standard fuels, e.g. H₂+CH₄, ethane Mechanical flame shields Assembly details; Material or dimensions of burner; Manifolds or supports Comprising performance enhancing means, e.g. electrostatic charge or built-in heater Multiple burner arrangements Linear array of like burners
2205/57 2205/60 2205/61 2205/62 2205/63 2205/64 2205/66	 coating Recovering, recycling or purifying the coolant, e.g. helium Optical fibre draw furnaces Recovering, recycling or purifying the inert gas, e.g. helium Heating means for drawing Ohmic resistance heaters, e.g. carbon or graphite resistance heaters Induction furnaces, i.e. HF/RF coil, e.g. of the graphite or zirconia susceptor type Microwave or similar electromagnetic wave heating, e.g. resonant cavity type 	2207/34 2207/36 2207/38 2207/40 2207/42 2207/46 2207/50	 Liquid, e.g. mist or aerosol Fuel or oxidant details, e.g. flow rate, flow rate ratio, fuel additives Fuel combinations or non-standard fuels, e.g. H₂+CH₄, ethane Mechanical flame shields Assembly details; Material or dimensions of burner; Manifolds or supports Comprising performance enhancing means, e.g. electrostatic charge or built-in heater Multiple burner arrangements Linear array of like burners combined with means for heating the deposit, e.g.
2205/57 2205/60 2205/61 2205/62 2205/63 2205/64 2205/66 2205/66	 coating Recovering, recycling or purifying the coolant, e.g. helium Optical fibre draw furnaces Recovering, recycling or purifying the inert gas, e.g. helium Heating means for drawing Ohmic resistance heaters, e.g. carbon or graphite resistance heaters Induction furnaces, i.e. HF/RF coil, e.g. of the graphite or zirconia susceptor type Microwave or similar electromagnetic wave heating, e.g. resonant cavity type Laser heating 	2207/34 2207/36 2207/38 2207/40 2207/42 2207/46 2207/50 2207/52 2207/54	 Liquid, e.g. mist or aerosol Fuel or oxidant details, e.g. flow rate, flow rate ratio, fuel additives Fuel combinations or non-standard fuels, e.g. H₂+CH₄, ethane Mechanical flame shields Assembly details; Material or dimensions of burner; Manifolds or supports Comprising performance enhancing means, e.g. electrostatic charge or built-in heater Multiple burner arrangements Linear array of like burners combined with means for heating the deposit, e.g. non-deposition burner
2205/57 2205/60 2205/61 2205/62 2205/63 2205/64 2205/66 2205/67 2205/68	 coating Recovering, recycling or purifying the coolant, e.g. helium Optical fibre draw furnaces Recovering, recycling or purifying the inert gas, e.g. helium Heating means for drawing Ohmic resistance heaters, e.g. carbon or graphite resistance heaters Induction furnaces, i.e. HF/RF coil, e.g. of the graphite or zirconia susceptor type Microwave or similar electromagnetic wave heating, e.g. resonant cavity type Laser heating Hot gas, e.g. plasma, flame, burner 	2207/34 2207/36 2207/38 2207/40 2207/42 2207/46 2207/50 2207/52	 Liquid, e.g. mist or aerosol Fuel or oxidant details, e.g. flow rate, flow rate ratio, fuel additives Fuel combinations or non-standard fuels, e.g. H₂+CH₄, ethane Mechanical flame shields Assembly details; Material or dimensions of burner; Manifolds or supports Comprising performance enhancing means, e.g. electrostatic charge or built-in heater Multiple burner arrangements Linear array of like burners combined with means for heating the deposit, e.g. non-deposition burner Relationship between burner and deposit, e.g.
2205/57 2205/60 2205/61 2205/62 2205/63 2205/64 2205/66 2205/66	 coating Recovering, recycling or purifying the coolant, e.g. helium Optical fibre draw furnaces Recovering, recycling or purifying the inert gas, e.g. helium Heating means for drawing Ohmic resistance heaters, e.g. carbon or graphite resistance heaters Induction furnaces, i.e. HF/RF coil, e.g. of the graphite or zirconia susceptor type Microwave or similar electromagnetic wave heating, e.g. resonant cavity type Laser heating Hot gas, e.g. plasma, flame, burner Auxiliary thermal treatment immediately prior 	2207/34 2207/36 2207/38 2207/40 2207/42 2207/46 2207/50 2207/52 2207/54 2207/60	 Liquid, e.g. mist or aerosol Fuel or oxidant details, e.g. flow rate, flow rate ratio, fuel additives Fuel combinations or non-standard fuels, e.g. H₂+CH₄, ethane Mechanical flame shields Assembly details; Material or dimensions of burner; Manifolds or supports Comprising performance enhancing means, e.g. electrostatic charge or built-in heater Multiple burner arrangements Linear array of like burners combined with means for heating the deposit, e.g. non-deposition burner Relationship between burner and deposit, e.g. position
2205/57 2205/60 2205/61 2205/62 2205/63 2205/64 2205/66 2205/67 2205/68	 coating Recovering, recycling or purifying the coolant, e.g. helium Optical fibre draw furnaces Recovering, recycling or purifying the inert gas, e.g. helium Heating means for drawing Ohmic resistance heaters, e.g. carbon or graphite resistance heaters Induction furnaces, i.e. HF/RF coil, e.g. of the graphite or zirconia susceptor type Microwave or similar electromagnetic wave heating, e.g. resonant cavity type Laser heating Hot gas, e.g. plasma, flame, burner Auxiliary thermal treatment immediately prior to drawing, e.g. pre-heaters, laser-assisted 	2207/34 2207/36 2207/38 2207/40 2207/42 2207/46 2207/50 2207/52 2207/54 2207/60	 Liquid, e.g. mist or aerosol Fuel or oxidant details, e.g. flow rate, flow rate ratio, fuel additives Fuel combinations or non-standard fuels, e.g. H₂+CH₄, ethane Mechanical flame shields Assembly details; Material or dimensions of burner; Manifolds or supports Comprising performance enhancing means, e.g. electrostatic charge or built-in heater Multiple burner arrangements Linear array of like burners combined with means for heating the deposit, e.g. non-deposition burner Relationship between burner and deposit, e.g. position Distance
2205/57 2205/60 2205/61 2205/62 2205/63 2205/64 2205/66 2205/67 2205/68 2205/69	 coating Recovering, recycling or purifying the coolant, e.g. helium Optical fibre draw furnaces Recovering, recycling or purifying the inert gas, e.g. helium Heating means for drawing Ohmic resistance heaters, e.g. carbon or graphite resistance heaters Induction furnaces, i.e. HF/RF coil, e.g. of the graphite or zirconia susceptor type Microwave or similar electromagnetic wave heating, e.g. resonant cavity type Laser heating Hot gas, e.g. plasma, flame, burner Auxiliary thermal treatment immediately prior to drawing, e.g. pre-heaters, laser-assisted resistance heaters 	2207/34 2207/36 2207/38 2207/40 2207/42 2207/46 2207/50 2207/52 2207/54 2207/60 2207/62 2207/64	 Liquid, e.g. mist or aerosol Fuel or oxidant details, e.g. flow rate, flow rate ratio, fuel additives Fuel combinations or non-standard fuels, e.g. H₂+CH₄, ethane Mechanical flame shields Assembly details; Material or dimensions of burner; Manifolds or supports Comprising performance enhancing means, e.g. electrostatic charge or built-in heater Multiple burner arrangements Linear array of like burners combined with means for heating the deposit, e.g. non-deposition burner Relationship between burner and deposit, e.g. position Distance Angle
2205/57 2205/60 2205/61 2205/62 2205/63 2205/64 2205/66 2205/67 2205/68 2205/69	 coating Recovering, recycling or purifying the coolant, e.g. helium Optical fibre draw furnaces Recovering, recycling or purifying the inert gas, e.g. helium Heating means for drawing Ohmic resistance heaters, e.g. carbon or graphite resistance heaters Induction furnaces, i.e. HF/RF coil, e.g. of the graphite or zirconia susceptor type Microwave or similar electromagnetic wave heating, e.g. resonant cavity type Laser heating Hot gas, e.g. plasma, flame, burner Auxiliary thermal treatment immediately prior to drawing, e.g. pre-heaters, laser-assisted resistance heaters Draw furnace insulation 	2207/34 2207/36 2207/38 2207/40 2207/42 2207/46 2207/50 2207/52 2207/54 2207/60 2207/62 2207/64 2207/66	 Liquid, e.g. mist or aerosol Fuel or oxidant details, e.g. flow rate, flow rate ratio, fuel additives Fuel combinations or non-standard fuels, e.g. H₂+CH₄, ethane Mechanical flame shields Assembly details; Material or dimensions of burner; Manifolds or supports Comprising performance enhancing means, e.g. electrostatic charge or built-in heater Multiple burner arrangements Linear array of like burners combined with means for heating the deposit, e.g. non-deposition burner Relationship between burner and deposit, e.g. position Distance Angle Relative motion
2205/57 2205/60 2205/61 2205/62 2205/63 2205/64 2205/66 2205/67 2205/68 2205/69	 coating Recovering, recycling or purifying the coolant, e.g. helium Optical fibre draw furnaces Recovering, recycling or purifying the inert gas, e.g. helium Heating means for drawing Ohmic resistance heaters, e.g. carbon or graphite resistance heaters Induction furnaces, i.e. HF/RF coil, e.g. of the graphite or zirconia susceptor type Microwave or similar electromagnetic wave heating, e.g. resonant cavity type Laser heating Hot gas, e.g. plasma, flame, burner Auxiliary thermal treatment immediately prior to drawing, e.g. pre-heaters, laser-assisted resistance heaters Draw furnace insulation Controlling or measuring the draw furnace 	2207/34 2207/36 2207/38 2207/40 2207/42 2207/46 2207/50 2207/52 2207/54 2207/60 2207/62 2207/64 2207/66 2207/70	 Liquid, e.g. mist or aerosol Fuel or oxidant details, e.g. flow rate, flow rate ratio, fuel additives Fuel combinations or non-standard fuels, e.g. H₂+CH₄, ethane Mechanical flame shields Assembly details; Material or dimensions of burner; Manifolds or supports Comprising performance enhancing means, e.g. electrostatic charge or built-in heater Multiple burner arrangements Linear array of like burners combined with means for heating the deposit, e.g. non-deposition burner Relationship between burner and deposit, e.g. position Distance Angle Relative motion Control measures
2205/57 2205/60 2205/61 2205/62 2205/63 2205/64 2205/66 2205/67 2205/68 2205/69 2205/70 2205/72	 coating Recovering, recycling or purifying the coolant, e.g. helium Optical fibre draw furnaces Recovering, recycling or purifying the inert gas, e.g. helium Heating means for drawing Ohmic resistance heaters, e.g. carbon or graphite resistance heaters Induction furnaces, i.e. HF/RF coil, e.g. of the graphite or zirconia susceptor type Microwave or similar electromagnetic wave heating, e.g. resonant cavity type Laser heating Hot gas, e.g. plasma, flame, burner Auxiliary thermal treatment immediately prior to drawing, e.g. pre-heaters, laser-assisted resistance heaters Draw furnace insulation Controlling or measuring the draw furnace temperature 	2207/34 2207/36 2207/38 2207/40 2207/42 2207/46 2207/50 2207/52 2207/54 2207/60 2207/62 2207/64 2207/66	 Liquid, e.g. mist or aerosol Fuel or oxidant details, e.g. flow rate, flow rate ratio, fuel additives Fuel combinations or non-standard fuels, e.g. H₂+CH₄, ethane Mechanical flame shields Assembly details; Material or dimensions of burner; Manifolds or supports Comprising performance enhancing means, e.g. electrostatic charge or built-in heater Multiple burner arrangements Linear array of like burners combined with means for heating the deposit, e.g. non-deposition burner Relationship between burner and deposit, e.g. position Distance Angle Relative motion Control measures Feeding the burner or the burner-heated deposition
2205/57 2205/60 2205/61 2205/62 2205/63 2205/64 2205/66 2205/67 2205/68 2205/69	 coating Recovering, recycling or purifying the coolant, e.g. helium Optical fibre draw furnaces Recovering, recycling or purifying the inert gas, e.g. helium Heating means for drawing Ohmic resistance heaters, e.g. carbon or graphite resistance heaters Induction furnaces, i.e. HF/RF coil, e.g. of the graphite or zirconia susceptor type Microwave or similar electromagnetic wave heating, e.g. resonant cavity type Laser heating Hot gas, e.g. plasma, flame, burner Auxiliary thermal treatment immediately prior to drawing, e.g. pre-heaters, laser-assisted resistance heaters Draw furnace insulation Controlling or measuring the draw furnace temperature Means for moving at least a part of the draw 	2207/34 2207/36 2207/38 2207/40 2207/42 2207/46 2207/50 2207/52 2207/54 2207/60 2207/62 2207/64 2207/66 2207/70 2207/80	 Liquid, e.g. mist or aerosol Fuel or oxidant details, e.g. flow rate, flow rate ratio, fuel additives Fuel combinations or non-standard fuels, e.g. H₂+CH₄, ethane Mechanical flame shields Assembly details; Material or dimensions of burner; Manifolds or supports Comprising performance enhancing means, e.g. electrostatic charge or built-in heater Multiple burner arrangements Linear array of like burners combined with means for heating the deposit, e.g. non-deposition burner Relationship between burner and deposit, e.g. position Distance Angle Relative motion Control measures Feeding the burner or the burner-heated deposition site
2205/57 2205/60 2205/61 2205/62 2205/63 2205/64 2205/66 2205/67 2205/68 2205/69 2205/70 2205/72	 coating Recovering, recycling or purifying the coolant, e.g. helium Optical fibre draw furnaces Recovering, recycling or purifying the inert gas, e.g. helium Heating means for drawing Ohmic resistance heaters, e.g. carbon or graphite resistance heaters Induction furnaces, i.e. HF/RF coil, e.g. of the graphite or zirconia susceptor type Microwave or similar electromagnetic wave heating, e.g. resonant cavity type Laser heating Hot gas, e.g. plasma, flame, burner Auxiliary thermal treatment immediately prior to drawing, e.g. pre-heaters, laser-assisted resistance heaters Draw furnace insulation Controlling or measuring the draw furnace temperature 	2207/34 2207/36 2207/38 2207/40 2207/42 2207/46 2207/50 2207/52 2207/54 2207/60 2207/62 2207/64 2207/66 2207/70	 Liquid, e.g. mist or aerosol Fuel or oxidant details, e.g. flow rate, flow rate ratio, fuel additives Fuel combinations or non-standard fuels, e.g. H₂+CH₄, ethane Mechanical flame shields Assembly details; Material or dimensions of burner; Manifolds or supports Comprising performance enhancing means, e.g. electrostatic charge or built-in heater Multiple burner arrangements Linear array of like burners combined with means for heating the deposit, e.g. non-deposition burner Relationship between burner and deposit, e.g. position Distance Angle Relative motion Control measures Feeding the burner or the burner-heated deposition site Constructional details of the feed line, e.g.
2205/57 2205/60 2205/61 2205/62 2205/63 2205/64 2205/66 2205/67 2205/68 2205/69 2205/70 2205/72 2205/74	 coating Recovering, recycling or purifying the coolant, e.g. helium Optical fibre draw furnaces Recovering, recycling or purifying the inert gas, e.g. helium Heating means for drawing Ohmic resistance heaters, e.g. carbon or graphite resistance heaters Induction furnaces, i.e. HF/RF coil, e.g. of the graphite or zirconia susceptor type Microwave or similar electromagnetic wave heating, e.g. resonant cavity type Laser heating Hot gas, e.g. plasma, flame, burner Auxiliary thermal treatment immediately prior to drawing, e.g. pre-heaters, laser-assisted resistance heaters Draw furnace insulation Controlling or measuring the draw furnace temperature Means for moving at least a part of the draw furnace, e.g. by rotation or vertical or horizontal movement 	2207/34 2207/36 2207/38 2207/40 2207/42 2207/46 2207/50 2207/52 2207/54 2207/60 2207/62 2207/64 2207/66 2207/70 2207/80	 Liquid, e.g. mist or aerosol Fuel or oxidant details, e.g. flow rate, flow rate ratio, fuel additives Fuel combinations or non-standard fuels, e.g. H₂+CH₄, ethane Mechanical flame shields Assembly details; Material or dimensions of burner; Manifolds or supports Comprising performance enhancing means, e.g. electrostatic charge or built-in heater Multiple burner arrangements Linear array of like burners combined with means for heating the deposit, e.g. non-deposition burner Relationship between burner and deposit, e.g. position Distance Angle Relative motion Control measures Feeding the burner or the burner-heated deposition site Constructional details of the feed line, e.g. heating, insulation, material, manifolds, filters
2205/57 2205/60 2205/61 2205/62 2205/63 2205/64 2205/66 2205/67 2205/68 2205/69 2205/70 2205/72	 coating Recovering, recycling or purifying the coolant, e.g. helium Optical fibre draw furnaces Recovering, recycling or purifying the inert gas, e.g. helium Heating means for drawing Ohmic resistance heaters, e.g. carbon or graphite resistance heaters Induction furnaces, i.e. HF/RF coil, e.g. of the graphite or zirconia susceptor type Microwave or similar electromagnetic wave heating, e.g. resonant cavity type Laser heating Hot gas, e.g. plasma, flame, burner Auxiliary thermal treatment immediately prior to drawing, e.g. pre-heaters, laser-assisted resistance heaters Draw furnace insulation Controlling or measuring the draw furnace temperature Means for moving at least a part of the draw furnace, e.g. by rotation or vertical or horizontal 	2207/34 2207/36 2207/38 2207/40 2207/42 2207/46 2207/50 2207/52 2207/54 2207/60 2207/62 2207/64 2207/66 2207/70 2207/80	 Liquid, e.g. mist or aerosol Fuel or oxidant details, e.g. flow rate, flow rate ratio, fuel additives Fuel combinations or non-standard fuels, e.g. H₂+CH₄, ethane Mechanical flame shields Assembly details; Material or dimensions of burner; Manifolds or supports Comprising performance enhancing means, e.g. electrostatic charge or built-in heater Multiple burner arrangements Linear array of like burners combined with means for heating the deposit, e.g. non-deposition burner Relationship between burner and deposit, e.g. position Distance Angle Relative motion Control measures Feeding the burner or the burner-heated deposition site Constructional details of the feed line, e.g. heating, insulation, material, manifolds, filters with vapour generated from liquid glass
2205/57 2205/60 2205/61 2205/62 2205/63 2205/64 2205/66 2205/67 2205/68 2205/69 2205/70 2205/72 2205/74	 coating Recovering, recycling or purifying the coolant, e.g. helium Optical fibre draw furnaces Recovering, recycling or purifying the inert gas, e.g. helium Heating means for drawing Ohmic resistance heaters, e.g. carbon or graphite resistance heaters Induction furnaces, i.e. HF/RF coil, e.g. of the graphite or zirconia susceptor type Microwave or similar electromagnetic wave heating, e.g. resonant cavity type Laser heating Hot gas, e.g. plasma, flame, burner Auxiliary thermal treatment immediately prior to drawing, e.g. pre-heaters, laser-assisted resistance heaters Draw furnace insulation Controlling or measuring the draw furnace temperature Means for moving at least a part of the draw furnace, e.g. by rotation or vertical or horizontal movement Means for sealing the preform entry or upper end of the furnace 	2207/34 2207/36 2207/38 2207/40 2207/42 2207/46 2207/50 2207/52 2207/54 2207/60 2207/62 2207/64 2207/66 2207/70 2207/80 2207/81	 Liquid, e.g. mist or aerosol Fuel or oxidant details, e.g. flow rate, flow rate ratio, fuel additives Fuel combinations or non-standard fuels, e.g. H2+CH4, ethane Mechanical flame shields Assembly details; Material or dimensions of burner; Manifolds or supports Comprising performance enhancing means, e.g. electrostatic charge or built-in heater Multiple burner arrangements Linear array of like burners combined with means for heating the deposit, e.g. non-deposition burner Relationship between burner and deposit, e.g. position Distance Angle Relative motion Control measures Feeding the burner or the burner-heated deposition site Constructional details of the feed line, e.g. heating, insulation, material, manifolds, filters with vapour generated from liquid glass precursors, e.g. directly by heating the liquid
2205/57 2205/60 2205/61 2205/62 2205/63 2205/64 2205/66 2205/67 2205/68 2205/69 2205/70 2205/72 2205/74	 coating Recovering, recycling or purifying the coolant, e.g. helium Optical fibre draw furnaces Recovering, recycling or purifying the inert gas, e.g. helium Heating means for drawing Ohmic resistance heaters, e.g. carbon or graphite resistance heaters Induction furnaces, i.e. HF/RF coil, e.g. of the graphite or zirconia susceptor type Microwave or similar electromagnetic wave heating, e.g. resonant cavity type Laser heating Hot gas, e.g. plasma, flame, burner Auxiliary thermal treatment immediately prior to drawing, e.g. pre-heaters, laser-assisted resistance heaters Draw furnace insulation Controlling or measuring the draw furnace temperature Means for moving at least a part of the draw furnace, e.g. by rotation or vertical or horizontal movement Means for sealing the preform entry or upper end 	2207/34 2207/36 2207/38 2207/40 2207/42 2207/46 2207/50 2207/52 2207/54 2207/60 2207/62 2207/64 2207/66 2207/70 2207/80	 Liquid, e.g. mist or aerosol Fuel or oxidant details, e.g. flow rate, flow rate ratio, fuel additives Fuel combinations or non-standard fuels, e.g. H₂+CH₄, ethane Mechanical flame shields Assembly details; Material or dimensions of burner; Manifolds or supports Comprising performance enhancing means, e.g. electrostatic charge or built-in heater Multiple burner arrangements Linear array of like burners combined with means for heating the deposit, e.g. non-deposition burner Relationship between burner and deposit, e.g. position Distance Angle Relative motion Control measures Feeding the burner or the burner-heated deposition site Constructional details of the feed line, e.g. heating, insulation, material, manifolds, filters with vapour generated from liquid glass

the furnace

2207/88	Controlling the pressure	2215/41	Profiled surfaces
2207/89	Controlling the liquid level in or supply to the	2215/412	fine structured, e.g. fresnel lenses, prismatic
	tank		reflectors, other sharp-edged surface profiles
2207/90	with vapour generated from solid glass precursors, i.e. by sublimation	2215/413	• • • optical fibre alignment, fixing or connecting members having V-grooves
2211/00	= II	2215/414	Arrays of products, e.g. lenses
2211/00	Heating processes for glass melting in glass melting furnaces	2215/44	Flat, parallel-faced disc or plate products
2211/20		2215/45	Ring or doughnut disc products or their preforms
2211/20	Submerged gas heating	2215/46	. Lenses, e.g. bi-convex
2211/22	by direct combustion in the melt	2215/47	Bi-concave
2211/23	using oxygen, i.e. pure oxygen or oxygen-	2215/48	Convex-concave
	enriched air	2215/49	Complex forms not covered by groups
2211/24	by direct contact of non-combusting hot gas in the melt		C03B 2215/47 or C03B 2215/48
2211/25	• • by indirect heating, e.g. with heat pipes	2215/50	Structural details of the press-mould assembly
2211/30	introducing oxygen into the glass melting furnace	2215/60	Aligning press die axes
	separately from the fuel	2215/61	• Positioning the glass to be pressed with respect to
2211/40	using oxy-fuel burners		the press dies or press axis
2211/60	oxy-fuel burner construction	2215/62	Vibration-assisted pressing
2211/62	flat-flame	2215/63	• Pressing between porous dies supplied with gas, i.e.
2211/70	Skull melting, i.e. melting or refining in cooled wall		contactless pressing
2211/70	crucibles or within solidified glass crust, e.g. in	2215/64	• Spinning, centrifuging or using g-force to distribute
	continuous walled vessels		the glass
2211/71	within segmented wall vessels where the molten	2215/65	. Means for releasing gas trapped between glass and
2211//1	glass solidifies between and seals the gaps		press die
	between wall segments	2215/66	• Means for providing special atmospheres, e.g.
	between wan segments		reduced pressure, inert gas, reducing gas, clean
2215/00	Press-moulding glass		room
2215/02	Press-mould materials	2215/67	• Pressing between dies rotating about the press axis
2215/03	defined by material properties or parameters, e.g.	2215/68	Means for parting the die from the pressed glass
	relative CTE of mould parts		other than by cooling or use of a take-out
2215/05	Press-mould die materials	2215/69	• Controlling the pressure applied to the glass via the
2215/06	Metals or alloys		dies
2215/07	Ceramic or cermets	2215/70	Horizontal or inclined press axis
2215/08	Coated press-mould dies	2215/71	Injecting molten glass into the mould cavity
2215/10	Die base materials	2215/72	Barrel presses or equivalent, e.g. of the ring mould
2215/11	Metals	2213/72	type
2215/12	Ceramics or cermets, e.g. cemented WC,	2215/73	• with means to allow glass overflow in a direction
2213/12	Al ₂ O ₃ or TiC	2213/73	perpendicular to the press axis
2215/14	• • • Die top coat materials, e.g. materials for the	2215/74	• • with means to trim off excess material
2213/14	glass-contacting layers	2215/76	Pressing whereby some glass overflows
2215/16	Metals or alloys, e.g. Ni-P, Ni-B, amorphous	2213/70	unrestrained beyond the press mould in a direction
2213/10	metals		perpendicular to the press axis
2215/17	comprising one or more of the noble	2215/77	with means to trim off excess material
2213/11	meals, i.e. Ag, Au, platinum group metals	2215/78	Pressing together along two or more perpendicular
2215/20	Oxide ceramics	2213/76	axes
	Non-oxide ceramics	2215/79	• Uniting product and product holder during pressing,
2215/22		2213/17	e.g. lens and lens holder
2215/24	Carbon, e.g. diamond, graphite, amorphous	2215/80	Simultaneous pressing of multiple products;
2215/26	carbon	2213/60	Multiple parallel moulds
2215/26	Mixtures of materials covered	2215/86	
	by more than one of the groups		• Linear series of multiple press moulds
	C03B 2215/16 - C03B 2215/24, e.g. C-SiC,	2215/87	• with change of transportation direction in the
2215/20	Cr-Cr ₂ O ₃ , SIALON		horizontal plane, e.g. rectangular or "U" shape
2215/30	Intermediate layers, e.g. graded zone of base/		serial transport
2215/21	top material	2225/00	Transporting hot glass sheets during their
2215/31	Two or more distinct intermediate layers or		manufacture
	zones	2225/02	Means for positioning, aligning or orientating the
2215/32	of metallic or silicon material	_23_	sheets during their travel, e.g. stops
2215/34	of ceramic or cermet material, e.g. diamond-		, , , , , , , , , , , , , , , , , , ,
	like carbon		
2215/38	Mixed or graded material layers or zones		
2215/40	Product characteristics		
2215/404	Products with identification marks		
2215/406	Products comprising at least two different glasses		
2213/400	• • I roducts comprising at reast two different glasses		