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>,

C03B 37/016

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

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 {(<u>C03B 5/02</u> takes precedence)} Discontinuously-working tank furnaces, e.g. day
1/02	• Compacting the glass batches, e.g. pelletising	5/06	tanks • in pot furnaces {(<u>C03B 5/02</u> 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	5/12	takes precedence)}
3/023	the glass-making ingredients, pellets or cullet • {Preheating}	5/12 5/14	 in shaft furnaces {(C03B 5/02 takes precedence)} in revolving cylindrical furnaces {(C03B 5/02 takes)
3/025	• {Preneating}• {by charging the ingredients into a flame, through	3/14	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	 <u>C03B 5/185</u> take precedence)} Means for preventing damage to equipment, e.g. by molten glass, hot gases, batches (<u>C03B 5/20</u>,
5/02	treatment of radioactive waste <u>G21F 9/00</u>)} • in electric furnaces {, e.g. by dielectric heating (electric heating in general <u>H05B</u>)}	5/1672	C03B 5/42 take precedence) {Use of materials therefor}
5/021	• {by induction heating}	5/1675	{Platinum group metals}
5/023	• • {by microwave heating}	5/1677	• • • {by use of electrochemically protection means, 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	0,170	molten glass in glass furnaces, e.g. for colouring the molten glass (chemical aspects CO3C)
5/0252	resistance heating	5/18	• • Stirring devices; Homogenisation {(mixing in
5/0272 5/0275	 {Pot furnaces} {Shaft furnaces (C03B 5/0277 takes		general <u>B01F</u>)}
	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 5/033	 {Cold top tank furnaces} by using resistance heaters above or in the glass	5/185	Electric means
3/033	bath, i.e. by indirect resistance heating	5/187	• • • with moving elements
5/0332	{Tank furnaces}	5/1875 5/193	 {of the screw or pump-action type} using gas, e.g. bubblers
5/0334	• • {Pot furnaces; Core furnaces}	5/193	using gas, e.g. bubblersBridges, shoes, throats, or other devices for
5/0336	• • • {Shaft furnaces (C03B 5/0338 takes precedence)}	3/20	withholding dirt, foam, or batch

Melting the raw material C03B

e.g. bigh momentum binners) (Mechanical means for skimming or scraping the melt surface) (Mechanical means for skimming or scraping the melt surface) (Foraminous or mesh screens, e.g. submerged sieves) (Refining coords 5/18 takes precedence); (Refining agents COSC L0041) (Junder reduced pressure, e.g. with vacuum refiners) (Junder reduced pressure) (Junder reduced pressure, e.g. with vacuum refiners) (Junder reduced pressure) (Junder reduced pressed pressedence) (Junder reduced pressedence) (Junder reduce				
the melt surface) \$7.207 . [Foraminoso or melts screens, e.g. submerged slewes] \$7.228 . Refining (CMB 5/18 lakes precedence) { Refining agents CO3C 10041) \$7.228 . (under reduced pressure, e.g. with vacuum refiners) \$7.229 . (under reduced pressure, e.g. with vacuum refiners) \$7.229 . (by centridging) \$7.225 . (by centridging) \$7.225 . (by centridging) \$7.225 . (by thin-layer fining) \$7.226 . (colling the molten glass (CO3B 5/18, CO3B 5/18, CO3	5/202		7/065	• • • {by combustion with pure oxygen or oxygen- enriched air}
Formation feeders sieves 7,082 Pneumatic feeders sieves 7,084 Pneumatic feeders sieves 7,084 Pneumatic feeders sieves 7,085 Pneumatic feeders 7,086 Plunger mechanisms 7,096 Plunger mechanisms 7,096 Plunger mechanisms 7,096 Plunger mechanisms 7,096 Plunger mechanisms 7,097 Plunger mechanisms 7,098 Plunger mechanisms 7,099 Plunger mechanis	5/205			
sieves 7,084 Tube mechanisms 7,085 Plunger mechanisms 7,086 Plunger mechanisms 7,096 Plunger mechanisms 7,096 Sitring devices, Plunger mechanisms 7,096 Means for heating, cooling or insulation 7,096 Means for heating, cooling or oxygen 7,111 Cauting-off (or severing) he glass flow with dor for severing) and percent 7,112 Means for heating, cooling or present 7,114 Means for heating, cooling or present 7,114 Means for heating, cooling or present 7,114 Means for heating, cooling or means 7,114 Means for heating, cooling or present 7,114 Means for heating, cooling or means 7,114 Means for heating, cooling or means 7,114 Means for heating, cooling or means 7,114 Means for heating, cooling heating, cooling plugge				
Section Country Coun	5/207	• • • {Foraminous or mesh screens, e.g. submerged	7/082	Pneumatic feeders
Refining agents C03C 10041) 7,0225		•	7/084	Tube mechanisms
Refining agents C03C 10941) 7088 Outlets, e.g. orifice rings 7089 Spout blocks 7092 Stirring devices; Homogenisation (C03B 5/2255 [by centrifuging] 7093 Spout blocks 7094 Stirring devices; Homogenisation (C03B 5/2255) 7095 [by chin-layer fining] 7096	5/225	• Refining (C03B 5/18 takes precedence {;	7/086	Plunger mechanisms
5/2252 . (under reduced pressure, e.g. with vacuum refiners) 5/2255 . (by centifuging) 5/2255 . (by centifuging) 5/2255 . (by centifuging) 5/225 . (by centifuging) 5/225 . (coling the molten glass (CO3B 5/18, CO3B 5/225 take precedence) 5/225 . Heating the glass (CO3B 5/12, CO3B 5/18, CO3B 5/225 take precedence) NOTE Devices for withholding dirt, foam, or batch are also classified in CO3B 5/202 5/235 . (by combustion with pure oxygen or oxygen-enriched air, e.g. using oxy-fuel burners or oxygen lances) 5/235 . (Submerged heating, e.g. by using heat pipes, hot gas or submerged combustion burners (hubblesc CO3B 5/193) 5/237 . Regenerators or recuperators specially adapted for glass-melting furnaces therefor. Brick stacking arrangements for glass-melting furnaces in general F27D 11/42; lose of materials therefor. Brick stacking arrangements) 5/24 . Automatically regulating the melting process for supplying the float tank, tweels) 5/26 . (Jorains, i.e. means to dump glass melt or remove unwanted materials) 5/26 . (Sprains, i.e. means to dump glass melt or remove unwanted materials) 5/26 . (Sprains, i.e. means to dump glass melt or remove unwanted materials) 5/26 . (Sprains) (specially adapted for supplying the float tank, tweels) 5/26 . (Sprains) (specially adapted for supplying the float tank, tweels) 5/26 . (Sprains) (specially adapted for supplying the float tank, tweels) 5/26 . (Specially adapted for supplying the float tank) 5/28 . Siphons 5/29 . Details of construction of furnace walls, e.g. to prevent corrosion; Use of materials for furnace walls (specially adapted for supplying the float tank) 5/20 . Leg of materials for furnace walls, e.g. to prevent corrosion; Use of materials for furnace walls (specially adapted for supplying the float tank) 5/20 . (Details) (specially adapted for supplying the float tank) 5/21 . (Specially adapted for supplying the float tank) 5/22 . (Specially adapted for supplying the float tank) 5/23 . (Specially adapted for supplying the float tank) 5/24 . (Specially adapted for		Refining agents C03C 1/004})		
refiners) 7.092 7.093 7.094 7.094 7.095 7.096 7.096 7.097 7.097 7.096 7.098 7.098 7.099 7.09 7	5/2252			
5/2255 [by centrifuging] 5/2257 [by thin-layer fining] 5/2257 [by thin-layer fining] 5/237 Cooling the molten glass (C03B 5/18, C03B 5/225 take precedence) 5/238 . Pleating the glass (C03B 5/20, C03B 5/18, C03B 5/225 take precedence) NOTE Devices for withholding dirt, foam, or batch are also classified in C03B 5/202 5/2353 [by combustion with pure oxygen or oxygen-enriched air, e.g. using oxy-fuel burners or oxygen lances] 5/2356 [Submerged heating, e.g. by using heat pipes, hot gas or submerged combustion burners (bubblers C03B 5/193)] 5/237 [Regenerators recuperators specially adapted for glass-melting furnaces herefor pites's stacking arrangements for gravity and therefor pites's tacking arrangements for supplying the melt or batch level, depth or thickness] 5/24 . Automatically regulating the melting process in general [27D 1042); Use of materials herefor pites's stacking arrangements [5/265] . [Overflows; Lips; Tweets] 5/267 [specially adapted for supplying the float tank, tweets] 5/268 [Overflows; Lips; Tweets] 5/269 Use of materials for furnace walls, e.g. to preventing corrosion or erosion (C03B 5/44 takes precedence) 5/260 . Use of materials for furnace walls, e.g. to preventing corrosion or erosion (C03B 5/44 takes precedence) 5/261 . Leading arrangements for furnace walls, e.g. to preventing corrosion or erosion (C03B 5/44 takes precedence) 5/262 . Preventing corrosion or erosion (C03B 5/44 takes precedence) 5/263 . Leading arrangements for furnace walls, e.g. to preventing corrosion or erosion (C03B 5/44 takes precedence) 5/264 . Leading arrangements for furnace walls, e.g. to preventing corrosion or erosion (C03B 5/44 takes precedence) 5/265 [Overflows; Lips; Tweets] 5/266 [Overflows; Lips; Tweets] 5/270 [Sepecially adapted for supplying the float tank, luminor and the prevention of furnace walls, e.g. to preventing corrosion or erosion (C03B 5/44 takes precedence) 5/270 . Leading for construction of furnace walls, e.g. to				•
5/237 . (by thir-layer fining) 5/23 . Cooling the molest glass (CO3B 5/18, CO3B 5/22 take precedence) 5/235 . Heating the glass (CO3B 5/02, CO3B 5/18, CO3B 5/22 take precedence) NOTE Devices for withholding dirt, foun, or batch are also classified in CO3B 5/20. CO3B 5/22 to classified in CO3B 5/20. CO3B 5/22 to classified in CO3B 5/20. CO3B 5/22 to classified in CO3B 5/20. CO3B 5/23 to classified in CO3B 5/20. CO3B 5/23 to classified in CO3B 5/20. CO3B 5/24 to classified in CO3B 5/24 to classified in CO3B 5/25	5/2255	,	7/092	
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CO3B 5/225 take precedence Trops CO3B 5/202 Trops Tr			7/094	 Means for heating, cooling or insulation
Fig. 1. Heating the glass (C03B 5/02, C03B 5/18, C03B 5/225 take precedence) NOTE Devices for withholding dirt, foam, or batch are also classified in (D3B 5/202 1 Construction of the blades are also construction of the blades are also classified in (D3B 5/202 1 Construction of the blades are also classified in (D3B 5/202 1 Construction of th	5/23		7/096	• • • for heating
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NOTE Devices for withholding dirt, foam, or batch are also classified in C03B 5/202 5/2353 .	5/235		7/10	• Cutting-off {or severing} the glass flow with the
Devices for withholding dirt, foam, or batch are also classified in C03B 5/202		<u>C03B 5/225</u> take precedence)		
Devices for withholding dirt, foam, or batch are also classified in CO3B 5/202 5/2353 1. {by combustion with pure oxygen or oxygenenriched air, e.g., using oxy-fuel burners or oxygen lances} 5/2356 1. {Submerged heating, e.g. by using heat pipes, hot gas or submerged combustion burners (bubblers CO3B 5/193)} 5/2377 2. Regenerator brick design (brick shapes in general EZ7D 1/042); Use of materials therefor; Brick stacking arrangements tank? 5/247 3. Automatically regulating the melt or batch level, depth or thickness} 5/248 3. Outlets {, e.g. drims, siphons}; Overflows {, e.g. for supplying the float tank, tweels} 5/260 3. {poverflows; Lips; Tweels} 5/261 3. {poverflows; Lips; Tweels} 5/262 3. {poverflows; Lips; Tweels} 4. Details of construction of furnace walls, e.g. to prevent corrosion; Use of materials for furnace walls 5/249 3. {poverflows; Lips; Tweels} 5/240 3. {poverflows; Lips; Tweels} 5/241 3. {poverflows; Lips; Tweels} 5/242 4. {poverflows; Lips; Tweels} 5/243 5. {poverflows; Lips; Tweels} 5/244 5. {poverflows; Lips; Tweels} 5/255 6. {poverflows; Lips; Tweels} 6. {poverflows; Lips; Tweels} 6. {poverflows; Lips; Tweels} 6. {poverflows; Lips; Tweels} 7. {poverflows; Lips; Lip		NOTE		
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hot gas or submerged combustion burners (bubblers C038 5/193) 7/16		oxygen lances}	7/14	
Solution feeders Solution feeders Solution feeders Tiles Solution feeders Solution feeders Tiles Til	5/2356	• • • {Submerged heating, e.g. by using heat pipes,		
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For glass-melting furnaces 7/20 Scoop feeders	5/237	Regenerators or recuperators specially adapted	7/18	Suction feeders
Figure F			7/20	. Scoon feeders
in general F27D 1/042); Use of materials therefor; Brick stacking arrangements) 5/24	5/2375			•
therefor; Brick stacking arrangements 5/24	3/23/3		1122	· Gathering-devices in the form of rods of pipes
5/24 . Automatically regulating the melting process 5/245 {Regulating the melt or batch level, depth or thickness} 5/26 . Outlets {, e.g. drains, siphons}; Overflows {, e.g. 9/03			Shaning of a	ulacs (manufacture of fibres CO3R 37/00)
5/245 {Regulating the melt or batch level, depth or thickness} 5/26 Outlets {, e.g. drains, siphons}; Overflows {, e.g. for supplying the float tank, tweels} 5/262 {Drains, i.e. means to dump glass melt or remove unwanted materials} 5/263 {Overflows; Lips; Tweels} 5/265 {Overflows; Lips; Tweels} 5/267 {specially adapted for supplying the float tank} 5/28 Siphons 5/42 Details of construction of furnace walls, e.g. to prevent corrosion; Use of materials for furnace walls walls 5/43 Preventing corrosion or erosion (C03B 5/44 takes precedence) 5/43 Use of materials for furnace walls, e.g. firebricks 5/44 Cooling arrangements for furnace walls 5/44 Cooling arrangements for furnace walls 5/45 Heating arrangements for furnace walls 5/46 Gooting arrangements for furnace walls 5/47 (South machines with turn-over moulds) 5/48 Heating arrangements for furnace walls 5/49 (South machines with turn-over moulds) 5/40 (South machines with turn-over moulds) 5/40 (South machines with turn-over moulds) 5/41 (South machines, e.g. guide funnels, turn-over mechanisms (C03B 9/18) 5/42 (South machines) 5/43 (South machines) 5/44 Cooling arrangements for furnace walls 5/45 (South machines) 5/46 (South machines) 5/47 (South machines) 5/48 (South machines) 5/49 (South machines) 5/40 (South machines) 5/41 (South machines) 5/42 (South machines) 5/43 (South machines) 5/44 (South machines) 5/45 (South machines) 5/46 (South machines) 5/47 (South machines) 5/48 (South machines) 5/49 (South machines) 5/40 (South machines) 5/41 (South machines) 5/42 (South machines) 5/43 (South machines) 5/44 (South machines) 5/45 (South machines) 5/46 (South machines) 5/47 (South machines) 5/48 (South machines) 5/49	E /O 4		Shaping of g	manufacture of fibres <u>cosb 57700</u>)
5/26 . Outlets {, e.g. drains, siphons}; Overflows {, e.g. for supplying the float tank, tweels} 5/262 {Drains, i.e. means to dump glass melt or remove unwanted materials} 5/265 {Overflows; Lips; Tweels} 5/266 {Overflows; Lips; Tweels} 5/267 {specially adapted for supplying the float tank} 5/28 Siphons 5/42 Details of construction of furnace walls, e.g. to prevent corrosion; Use of materials for furnace walls 5/42 Preventing corrosion or erosion (C03B 5/44 takes precedence) 5/43 Use of materials for furnace walls, e.g. firebricks 5/44 Cooling arrangements for furnace walls 5/45 Heating arrangements for furnace walls 5/46 Cooling arrangements for furnace walls 5/47 (Details of such machines, e.g. guide funnels, turn-over moulds) 5/48 (Dotails of charges of molten glass; Producing the gob {, e.g. controlling, regulating or measuring}} 5/40 (Controlling, regulating or measuring) 7/00 . (Controlling, regulating or measuring) 7/01 . Means for taking-off charges of molten glass 1/02 . Forehearths, i.e. feeder channels			9/00	Blowing glass; Production of hollow glass articles
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for supplying the float tank, tweels} 5/262 {Drains, i.e. means to dump glass melt or remove unwanted materials} 5/265 {Overflows; Lips; Tweels} 5/267 {specially adapted for supplying the float tank} 5/28 . Siphons 5/42 . Details of construction of furnace walls, e.g. to prevent corrosion; Use of materials for furnace walls 5/42 Preventing corrosion or erosion (C03B 5/44 takes precedence) 5/43 Use of materials for furnace walls 5/44 Cooling arrangements for furnace walls 5/45 Heating arrangements for furnace walls 5/46 Cooling arrangements for furnace walls 5/47 Cooling arrangements for furnace walls 5/48 Cooling arrangements for furnace walls 5/49 Cooling arrangements for furnace walls 5/40 Cooling arrangements for furnace walls 5/41 Cooling arrangements for furnace walls 5/42 Reating arrangements for furnace walls 5/43 Reating arrangements for furnace walls 5/44 Cooling arrangements for furnace walls 5/45 Heating arrangements for furnace walls 5/46 Cooling arrangements for furnace walls 5/47 Cooling arrangements for furnace walls 5/48 Reating arrangements for furnace walls 5/49 Rotary-table machines 6/100 Rotary-table machines 6/100		thicknosel		
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remove unwanted materials} 5/265 {Overflows; Lips; Tweels} 5/267 {specially adapted for supplying the float tank} 5/28 Siphons 5/42 Details of construction of furnace walls, e.g. to prevent corrosion; Use of materials for furnace walls walls 5/42 Preventing corrosion or erosion (C03B 5/44 takes precedence) 5/43 Use of materials for furnace walls, e.g. firebricks 5/44 Cooling arrangements for furnace walls 5/44 Cooling arrangements for furnace walls 5/45 Heating arrangements for furnace walls 5/46 Cooling arrangements for furnace walls 5/47 Cooling arrangements for furnace walls 5/48 Cooling arrangements for furnace walls 5/49 Cooling arrangements for furnace walls 5/40 Cooling arrangements for furnace walls 5/40 Cooling arrangements for furnace walls 5/40 Cooling arrangements for furnace walls 5/41 Cooling arrangements for furnace walls 5/42 Cooling arrangements for furnace walls 5/43 Heating arrangements for furnace walls 5/44 Cooling arrangements for furnace walls 5/45 Floatily of machines with turn-over moulds 5/46 in machines with turn-over moulds 5/165 {Details of machines with turn-over moulds 5/165 {Details of such machines, e.g. guide funnels, turn-over mechanisms (C03B takes precedence)} 7/005 {Controlling, regulating or measuring} 7/005 (Controlling, regulating or measuring) 7/006 (Controlling, regulating or measuring) 7/007 Means for taking-off charges of molten glass 7/008 (C03B 7/08, C03B 7/14 - C03B 7/22 take precedence) 7/009 Forehearths, i.e. feeder channels 7/000 Forehearths, i.e. feeder channels	5/26	• Outlets {, e.g. drains, siphons}; Overflows {, e.g.		
Solution of the materials	5/26	• Outlets {, e.g. drains, siphons}; Overflows {, e.g. for supplying the float tank, tweels}		Making hollow glass articles with feet or
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tank} 5/28	5/262	 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} 	9/04 9/06	 Making hollow glass articles with feet or projections Making hollow glass articles with double walls, e.g. vacuum flasks
5/28 . Siphons 5/42 . Details of construction of furnace walls, e.g. to prevent corrosion; Use of materials for furnace walls 5/42 . Preventing corrosion or erosion (C03B 5/44 takes precedence) 5/43 . Use of materials for furnace walls, e.g. firebricks 5/43 . Heating arrangements for furnace walls 5/44 . Cooling arrangements for furnace walls 5/45 . Heating arrangements for furnace walls 5/46 . Cooling arrangements for furnace walls 5/47 . Cooling arrangements for furnace walls 5/48 . Siphons 5/49 . In gob feeder machines (C03B 9/28, C03B 9/precedence) 5/40 . In gob feeder machines (C03B 9/28, C03B 9/20 take precedence) 5/40 . In gob feeder machines (C03B 9/28, C03B 9/20 take precedence) 5/40 . In gob feeder machines (C03B 9/193, C03B 9/20 take precedence) 5/40 . In gob feeder machines (C03B 9/193, C03B 9/10 take precedence) 5/41 . In gob feeder machines (C03B 9/193, C03B 9/193, C03B 9/193, C03B 9/193, C03B 9/193, C03B 9/193, C03B 9/20 take precedence) 5/42 . In gob feeder machines (C03B 9/193, C03B 9/193, C0	5/262 5/265	 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} 	9/04 9/06	 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
5/42 . Details of construction of furnace walls, e.g. to prevent corrosion; Use of materials for furnace walls 5/425 . Preventing corrosion or erosion (C03B 5/44 takes precedence) 5/43 . Use of materials for furnace walls, e.g. fire-bricks 5/43 . Heating arrangements for furnace walls 5/44 . Cooling arrangements for furnace walls 5/44 . Rotary-table machines with urn-over moulds 7/00 Distributors for the molten glass; Means for taking-off charges of molten glass; Producing the gob {, e.g. controlling, regulating or measuring} 7/01 Means for taking-off charges of molten glass {(C03B 7/08, C03B 7/14 - C03B 7/22 take precedence)} 7/02 Forehearths, i.e. feeder channels	5/262 5/265	 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 	9/04 9/06 9/08	 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
prevent corrosion; Use of materials for furnace walls 5/425	5/262 5/265 5/267	 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} 	9/04 9/06 9/08	 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
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takes precedence) 5/43	5/262 5/265 5/267 5/28	 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 	9/04 9/06 9/08 9/10 9/12	 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)
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bricks 9/145 {Details of machines without turn-over moulds} Heating arrangements for furnace walls 5/44 Cooling arrangements for furnace walls 7/00 Distributors for the molten glass; Means for taking-off charges of molten glass; Producing the gob {, e.g. controlling the gob shape, weight or delivery tact} 7/005 . {Controlling, regulating or measuring} 7/01 . Means for taking-off charges of molten glass {(C03B 7/08, C03B 7/14 - C03B 7/22 take precedence)} 7/02 . Forehearths, i.e. feeder channels 9/145 {Details of machines without turn-over moulds} 9/16 in machines with turn-over moulds 9/16 in machines with turn-over moulds 9/16 {Details of such machines, e.g. guide funnels, turn-over mechanisms (C03B takes precedence)} 9/18 Rotary-table machines 9/18 {having at least two rotary tables} having only one rotary table 9/193 in "press-and-blow" machines 9/193 [Details of such machines, e.g. plungers plunger mechanisms for the press-and-blow machine, cooling of plungers (C03B 9/1)	5/262 5/265 5/267 5/28 5/42	 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) 	9/04 9/06 9/08 9/10 9/12 9/13	 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"
5/435 Heating arrangements for furnace walls 5/44 Cooling arrangements for furnace walls 7/00 Distributors for the molten glass; Means for taking-off charges of molten glass; Producing the gob {, e.g. controlling the gob shape, weight or delivery tact} 7/005 . {Controlling, regulating or measuring} 7/01 . Means for taking-off charges of molten glass {(C03B 7/08, C03B 7/14 - C03B 7/22 take precedence)} 7/02 . Forehearths, i.e. feeder channels 5/435 Heating arrangements for furnace walls 9/16 in machines with turn-over moulds 9/165 {Details of such machines, e.g. guide funnels, turn-over mechanisms (C03B takes precedence)} 9/18 Rotary-table machines 9/185 {having at least two rotary tables} having only one rotary table 9/193 in "press-and-blow" machines 9/1932 {Details of such machines, e.g. plungers plunger mechanisms for the press-and-blow machine, cooling of plungers (C03B 9/1)	5/262 5/265 5/267 5/28 5/42	 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) 	9/04 9/06 9/08 9/10 9/12 9/13	 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
5/44 Gooling arrangements for furnace walls 7/00 Distributors for the molten glass; Means for taking-off charges of molten glass; Producing the gob {, e.g. controlling the gob shape, weight or delivery tact} 7/00	5/262 5/265 5/267 5/28 5/42	 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) 	9/04 9/06 9/08 9/10 9/12 9/13	 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)
5/44 Cooling arrangements for furnace walls 7/00 Distributors for the molten glass; Means for taking-off charges of molten glass; Producing the gob {, e.g. controlling the gob shape, weight or delivery tact} 7/005 . {Controlling, regulating or measuring} 7/01 . Means for taking-off charges of molten glass {(C03B 7/08, C03B 7/14 - C03B 7/22 take precedence)} 7/02 . Forehearths, i.e. feeder channels 9/16 in machines with turn-over moulds 9/16 {Details of such machines, e.g. guide funnels, turn-over mechanisms (C03B takes precedence)} 9/18 Rotary-table machines 1/18 {having at least two rotary tables} 1/19 having only one rotary table 1/19 having only one rotary table 1/19 (C03B 7/08, C03B 7/14 - C03B 7/22 take) 1/19 (Details of such machines, e.g. plungers plunger mechanisms for the press-and-bines) 1/19 (C03B 7/08 takes precedence)} 1/10 . (C03B 7/08 takes precedence)	5/262 5/265 5/267 5/28 5/42	 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- 	9/04 9/06 9/08 9/10 9/12 9/13	 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
7/00 Distributors for the molten glass; Means for taking-off charges of molten glass; Producing the gob {, e.g. controlling the gob shape, weight or delivery tact} 7/005 . {Controlling, regulating or measuring} 7/01 . Means for taking-off charges of molten glass {(C03B 7/08, C03B 7/14 - C03B 7/22 take precedence)} 7/02 . Forehearths, i.e. feeder channels 9/165 {Details of such machines, e.g. guide funnels, turn-over mechanisms (C03B takes precedence)} 9/18 Rotary-table machines 9/18 {having at least two rotary tables} having only one rotary table 9/19 having only one rotary table 9/193 in "press-and-blow" machines 9/1932 {Details of such machines, e.g. plungers plunger mechanisms for the press-and-blow machine, cooling of plungers (C03B 9/1)	5/262 5/265 5/267 5/28 5/42 5/425 5/43	 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 	9/04 9/06 9/08 9/10 9/12 9/13 9/14	 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}
taking-off charges of molten glass; Producing the gob {, e.g. controlling the gob shape, weight or delivery tact} 7/005 (Controlling, regulating or measuring) 7/01 Means for taking-off charges of molten glass {(C03B 7/08, C03B 7/14 - C03B 7/22 take precedence)} 7/02 Forehearths, i.e. feeder channels takes precedence)} 1/18 1/	5/262 5/265 5/267 5/28 5/42 5/425 5/43 5/435	 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 	9/04 9/06 9/08 9/10 9/12 9/13 9/14	 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}
gob {, e.g. controlling the gob shape, weight or delivery tact} 7/005 . {Controlling, regulating or measuring} 9/18 Rotary-table machines 9/185 {having at least two rotary tables} 9/190 having only one rotary table 9/191 having only one rotary table 9/192 having only one rotary table 9/193 in "press-and-blow" machines 9/193 (Details of such machines, e.g. plungers plunger mechanisms for the press-and-blow machine, cooling of plungers (C03B 9/1) 1/02 . Forehearths, i.e. feeder channels	5/262 5/265 5/267 5/28 5/42 5/425 5/43 5/435	 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 	9/04 9/06 9/08 9/10 9/12 9/13 9/14 9/145 9/16	 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
delivery tact}9/185 {having at least two rotary tables}7/005. {Controlling, regulating or measuring}9/19 having only one rotary table7/01. Means for taking-off charges of molten glass {(C03B 7/08, C03B 7/14 - C03B 7/22 take precedence)}9/193. in "press-and-blow" machines7/02. Forehearths, i.e. feeder channels9/1932 {Details of such machines, e.g. plungers plunger mechanisms for the press-and-blow machine, cooling of plungers (C03B 9/1)	5/262 5/265 5/267 5/28 5/42 5/425 5/435 5/444	 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 	9/04 9/06 9/08 9/10 9/12 9/13 9/14 9/145 9/16	 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
delivery tact}9/185 {having at least two rotary tables}7/005. {Controlling, regulating or measuring}9/19 having only one rotary table7/01. Means for taking-off charges of molten glass {(C03B 7/08, C03B 7/14 - C03B 7/22 take precedence)}9/193 in "press-and-blow" machines7/02. Forehearths, i.e. feeder channels9/1932 {Details of such machines, e.g. plungers plunger mechanisms for the press-and-blow machine, cooling of plungers (C03B 9/1)	5/262 5/265 5/267 5/28 5/42 5/425 5/435 5/444	 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 	9/04 9/06 9/08 9/10 9/12 9/13 9/14 9/145 9/16	 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 Quetails of such machines, e.g. guide funnels, turn-over mechanisms (C03B 9/18
7/005 . {Controlling, regulating or measuring} 9/19 having only one rotary table 7/01 . Means for taking-off charges of molten glass {(C03B 7/08, C03B 7/14 - C03B 7/22 take precedence)} 7/02 . Forehearths, i.e. feeder channels 9/19 having only one rotary table 9/193 . in "press-and-blow" machines 9/1932 {Details of such machines, e.g. plungers plunger mechanisms for the press-and-blow machine, cooling of plungers (C03B 9/1)	5/262 5/265 5/267 5/28 5/42 5/425 5/435 5/444	 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 	9/04 9/06 9/08 9/10 9/12 9/13 9/14 9/145 9/16 9/165	 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 Qbetails of such machines, e.g. guide funnels, turn-over mechanisms (C03B 9/18 takes precedence)}
7/01 • Means for taking-off charges of molten glass {(C03B 7/08, C03B 7/14 - C03B 7/22 take precedence)} 7/02 • Forehearths, i.e. feeder channels 9/193 • in "press-and-blow" machines 9/1932 • Quantity of the press-and-blow machines, e.g. plungers plunger mechanisms for the press-and-blow machine, cooling of plungers (C03B 9/1)	5/262 5/265 5/267 5/28 5/42 5/425 5/435 5/444	 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 e.g. Cooling the molten glass; Means for taking-off charges of molten glass; Producing the gob {, e.g. controlling the gob shape, weight or 	9/04 9/06 9/08 9/10 9/12 9/13 9/14 9/145 9/165 9/18	 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 Quide funnels, turn-over mechanisms (C03B 9/18 takes precedence)} Rotary-table machines
{(C03B 7/08, C03B 7/14 - C03B 7/22 take precedence)} 7/02 • Forehearths, i.e. feeder channels (C03B 7/08, C03B 7/14 - C03B 7/22 take precedence)} • • • • • • • • • • • • • • • • • • •	5/262 5/265 5/267 5/28 5/42 5/425 5/43 5/435 5/44 7/00	 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 e.g. controlling the gob shape, weight or delivery tact} 	9/04 9/06 9/08 9/10 9/12 9/13 9/14 9/145 9/165 9/18 9/185	 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) Qbetails of machines without turn-over moulds in machines with turn-over moulds In machines with turn-over moulds Rotary-table machines Rotary-table machines Rotary tables
precedence)} 7/02 • Forehearths, i.e. feeder channels 7/02 • Forehearths, i.e. feeder channels 7/02 • Forehearths, i.e. feeder channels	5/262 5/265 5/267 5/28 5/42 5/425 5/435 5/435 5/44 7/00	 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} {Sepecially 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} 	9/04 9/06 9/08 9/10 9/12 9/13 9/14 9/145 9/16 9/165 9/18 9/185 9/19	 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) Qbetails of machines without turn-over moulds in machines with turn-over moulds in machines with turn-over moulds Rotary-table machines Rotary-table machines having only one rotary tables
7/02 • Forehearths, i.e. feeder channels machine, cooling of plungers (C03B 9/1)	5/262 5/265 5/267 5/28 5/42 5/425 5/435 5/435 5/44 7/00	 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 arrangements for furnace walls Distributors for 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 	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	 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 Quetails 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
maximo, cooling of printed to (Coop 7/1	5/262 5/265 5/267 5/28 5/42 5/425 5/435 5/435 5/44 7/00	 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} {Sepecially 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, regulating or measuring} Means for taking-off charges of molten glass {(C03B 7/08, C03B 7/14 - C03B 7/22 take) 	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	 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 in machines with turn-over moulds Rotary-table 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 in "press-and-blow" machines Qbetails of such machines, e.g. plungers or
//04 . Revolving forehearths takes precedence)}	5/262 5/265 5/267 5/28 5/42 5/425 5/435 5/435 5/44 7/00 7/005 7/01	 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} {Sepecially 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 precedence)} 	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	 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 Quetails 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 Quetails of such machines, e.g. plungers or plunger mechanisms for the press-and-blow
	5/262 5/265 5/267 5/28 5/42 5/425 5/435 5/44 7/00 7/005 7/01	 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; 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 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 precedence)} Forehearths, i.e. feeder channels 	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	 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 Quetails 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 Quetails of such machines, e.g. plungers or plunger mechanisms for the press-and-blow machine, cooling of plungers (C03B 9/195
	5/262 5/265 5/267 5/28 5/425 5/425 5/435 5/44 7/00 7/005 7/01	 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)} Forehearths, i.e. feeder channels Revolving forehearths 	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	 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 Quetails 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 Quetails of such machines, e.g. plungers or plunger mechanisms for the press-and-blow machine, cooling of plungers (C03B 9/195
temperature of the glass plunger}	5/262 5/265 5/267 5/28 5/425 5/425 5/435 5/44 7/00 7/005 7/01	 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 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)} Revolving forehearths Means for thermal conditioning or controlling the 	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	 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 Quetails 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 Quetails 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}
0/1020	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
0/105	plunger}	0/2000	moulded by the machine}
9/195	Rotary-table machines	9/3808	 • {Selection or characteristics of the cooling, heating or insulating medium, e.g. gas
9/1955	• • • {having at least two rotary tables}		composition, moisture content, cryogenic state
9/197	Construction of the blank mould	9/3816	• • {Means for general supply, distribution or
9/20	in "vacuum blowing" or in "vacuum-and-blow"	9/3010	control of the medium to the mould, e.g.
0.422	machines		sensors, circuits, distribution networks}
9/22	Rotary-table machines	9/3825	• • {Details thereof relating to plungers}
9/225	• • • {having at least two rotary tables}	9/3833	 {Details thereof relating to prungers} {Details thereof relating to neck moulds}
9/24	Construction of the blank mould	9/3833	
9/28	• in machines of the endless-chain type (<u>C03B 9/12</u>	9/3041	 . • {Details thereof relating to direct cooling, heating or insulating of the moulded glass}
	takes precedence)	9/385	• • • { using a tube for cooling or heating the
9/29	• Paste mould machines (<u>C03B 9/28</u> takes	9/303	inside, e.g. blowheads}
	precedence)	9/3858	• • • • {Movable tubes}
9/292	• • {Details of such machines (<u>C03B 9/295</u> takes		
	precedence)}	9/3866	 • {Details thereof relating to bottom moulds, e.g. 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	0/2992	
	mouth C03B 9/02); Use of materials for the moulds	9/3883	{Air delivery thereto, e.g. plenum, piping}
9/31	Blowing laminated glass articles or glass with	9/3891	• • {Manifolds or regulating devices, e.g. valves,
	enclosures, e.g. wires, bubbles	9/40	injectors}Gearing or controlling mechanisms specially
9/32	Giving special shapes to parts of hollow glass	9/40	adapted for glass-blowing machines
	articles	9/403	{Hydraulic or pneumatic systems}
9/325	• • Forming screw-threads or lips at the mouth of		• • • {Manifolds or regulating devices, e.g.
	hollow glass articles; Neck moulds	9/406	valves}
9/33	Making hollow glass articles with feet or	9/41	Electric or electronic systems (in general
0./22.5	projections; Moulds therefor	2/41	G05B 19/00)
9/335	• • • Forming bottoms to blown hollow glass	9/42	Means for fusing, burning-off, or edge-melting
0/24	articles; Bottom moulds)/ 4 2	combined with glass-blowing machines (uniting
9/34	• Glass-blowing moulds not otherwise provided for		glass pieces by fusing C03B 23/20)
9/342	• • {Neck moulds (<u>C03B 9/325</u> takes precedence)}	0/44	Means for discharging combined with glass-
0/0/1/	(D.) (G00D 0/005) 1	9/44	
9/344	• • • {Bottom moulds (C03B 9/335 takes	9/44	
	precedence)}	9/44	blowing machines, e.g. take-outs
9/347	precedence)} Construction of the blank or blow mould		blowing machines, e.g. take-outs Means for the removal of glass articles from
	 precedence)} Construction of the blank or blow mould Mould holders {; Mould opening and closing 		blowing machines, e.g. take-outs
9/347 9/353	 precedence)} Construction of the blank or blow mould Mould holders {; Mould opening and closing mechanisms} 	9/447	blowing machines, e.g. take-outs. Means for the removal of glass articles from the blow-mould, e.g. take-outs
9/347	 precedence)} Construction of the blank or blow mould Mould holders {; Mould opening and closing mechanisms} {Mechanisms for holders of half moulds 	9/447	 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
9/347 9/353	 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 	9/447	 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;
9/347 9/353 9/3532	 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	 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
9/347 9/353	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	 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}
9/347 9/353 9/3532 9/3535	 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	 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
9/347 9/353 9/3532	 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 9/48	 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
9/347 9/353 9/3532 9/3535 9/3537	 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	 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
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9/347 9/353 9/3532 9/3535 9/3537 9/36	 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 	9/447 9/453 9/4535 9/46 9/48	 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
9/347 9/353 9/3532 9/3535 9/3537	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	 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
9/347 9/353 9/3532 9/3535 9/3537 9/36	 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	 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
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9/347 9/353 9/3532 9/3535 9/3537 9/36	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	9/447 9/453 9/4535 9/46 9/48 11/00	 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)}
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9/347 9/353 9/3532 9/3535 9/3537 9/36 9/3609	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	9/447 9/453 9/4535 9/46 9/48 11/00	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} {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}
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9/347 9/353 9/3532 9/3535 9/3537 9/36 9/3609 9/3618 9/3627	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 11/005 11/02 11/04	 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
9/347 9/353 9/3532 9/3535 9/3537 9/36 9/3609 9/3618 9/3627	 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	 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 reciprocating moulds
9/347 9/353 9/3532 9/3535 9/3537 9/36 9/3609 9/3618 9/3627 9/3636	 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 11/05 11/06	 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 reciprocating moulds Construction of plunger or mould
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9/347 9/353 9/3532 9/3535 9/3537 9/36 9/3609 9/3618 9/3627 9/3636 9/3645 9/3654	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} Mechanisms for holders of half moulds moving 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	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} {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 moulds fed by suction . in machines with reciprocating moulds . Construction of plunger or mould Suction moulds for making solid articles, e.g. lenses {having profiled, patterned or microstructured
9/347 9/353 9/3532 9/3535 9/3537 9/36 9/3609 9/3618 9/3627 9/3636 9/3645 9/3654 9/3663	 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 11/08	 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 herefor?) 11/085 (of coated dies (use of materials as release or labricating compositions C03B 40/02)) 11/10 . for making hollow (or semi-hollow) articles 17/04 . [7/025 colonig, heating, or insulating the planger, the mould, or the glass-pressing machine; (cooling or heating of the glass in the mould) (C03B 9/38 takes precedence) 11/12 . (Floating) 11/125 . (Floating) 11/127 . (of hollow or semi-hollow articles or their moulds) 11/141 . [Pressing laminated glass articles or glass] with metal inserts (or enclosures, e.g. wires, bubbles, coloured parts) 11/16 . Gearing or controlling mechanisms specially adapted for glass presses 13/00 Rolling (motter) glass I, Le. where the molten glass is shaped by rolling (rea forming shaped glass by rolling (C03B 2004, C03B 2004, C03	used silica articles
press dies therefor] 11/08	
press dies therefor 1,006	tion}
press dies therefor] 11/086 [of coated dies (use of materials as release or lubricating compositions CO3B 4:002)] 11/108 [of trait dises] 11/109 [of or making hollow [or semi-hollow] articles 11/110 [of or making hollow [or semi-hollow] articles 11/112 [Cooling, heating, or insulating the plunger, the mould, or the glass-pressing machine; [cooling or heating of the glass in the mould] (CO3B 9:38 takes proceedence) 11/122 [Heating] 11/123 [(Cooling]] 11/124 [(Pressing laminated glass articles or glass] with metal inserts (or enclosures, e.g. wires, bubbles, coloured parts) 11/16 . [(Pressing laminated glass articles or glass]] 11/16 . [(Pressing laminated glass articles or enclosures, e.g. wires, bubbles, coloured parts]] 11/16 . [(Pressing laminated glass articles or glass]] 11/16 . [(Pressing laminated glass articles or enclosures, e.g. with I, I, I, I] 11/16 . [(Pressing laminated glass directions]] 11/17	es or dispersions not
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press dies therefor} 11/086 { of coated dies (use of materials as release or lubricating compositions C03B 40/02)} 11/088 {Flat discs} 11/10 for making hollow {or semi-hollow} articles 11/12 . Cooling, heating, or insulating the plunger, the mould, or the glass-pressing machine; {cooling or heating of the glass in the mould}(C03B 9/38 takes precedence) 11/12 {Heating} 11/12 {Gooling} 11/12 {of hollow or semi-hollow articles or their moulds} 11/12 {of hollow or semi-hollow articles or their moulds} 11/12 {of hollow or semi-hollow articles or their moulds} 11/14 . {Pressing laminated glass articles or glass} with metal inserts {or enclosures, e.g. wires, bubbles, coloured parts} 11/16 . Gearing or controlling mechanisms specially adapted for glass presses 11/068 {Means for providing the drawit traction or draw rollers} 11/068 {Means for providing the drawit traction or draw rollers}	e surface of a
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press dies therefor} 11/086 {of coated dies (use of materials as release or lubricating compositions C03B 40/02)} 11/088 {Flat discs} 11/10 for making hollow {or semi-hollow} articles 11/12 . Cooling, heating, or insulating the plunger, the mould, or the glass-pressing machine; {cooling or heating of the glass in the mould}(C03B 9/38 takes precedence) 11/12 . {Heating} 11/12 . {Cooling} 11/13 . {Cooling} 11/14 . {Pressing laminated glass articles or glass} with 11/15 . {Forming molten glass of compositions or layers; Forming no locations or layers; Forming profiled, patterned or compositions or layers; Forming molten glass of compositions or layers; Forming note compositions or layers; Forming note of compositions or layers; Forming profiled, patterned or compositions or layers; Forming molten glass of compositions or layers; Forming note compositions or layers; Forming note of compositions or layers; Forming profiled, patterned or compositions or layers; Forming molten glass of compositions or layers; Forming note compositions or layers; Forming profiled, patterned or compositions or layers; Forming molten glass or layers in semicons or layers; Forming note compositions or layers; Forming profiled, patterned or compositions or layers; Forming note of compositions or layers in semicons or la	ditioning of the
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press dies therefor} 11/086 {of coated dies (use of materials as release or lubricating compositions C03B 40/02)} 11/088 {Flat discs} 11/10 for making hollow {or semi-hollow} articles 11/12 . Cooling, heating, or insulating the plunger, the mould, or the glass-pressing machine; {cooling or heating of the glass in the mould} (C03B 9/38 takes precedence) 11/12 . {Heating} layers; {Forming molten glass of compositions or layers; Forming none comprising reinforcements or insections or rods} 17/025 . {Tubes or rods} Forming tubes or rods by drawing or rotating tools or from forming none precedence} 17/06 . {by lateral drawing or extrusion gaseous support from which the gaseous support from the gaseous support	fusion process;
press dies therefor} 11/086 {of coated dies (use of materials as release or lubricating compositions C03B 40/02)} 11/088 {Flat discs} 11/10 for making hollow {or semi-hollow} articles 11/12 . Cooling, heating, or insulating the plunger, the mould, or the glass-pressing machine; {cooling or heating of the glass in the mould} (C03B 9/38 takes precedence) 12/062 13/062 14/063 15/061 15/061 16/061 16/061 16/062 18/061 18/062 18/061 18/062 18/062 18/062 18/063 18	an the sheet is
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press dies therefor} 11/086 {of coated dies (use of materials as release or lubricating compositions C03B 40/02)} 11/088 {Flat discs} 11/10 for making hollow {or semi-hollow} articles 11/12 . Cooling, heating, or insulating the plunger, the layers; {Forming molten glass of compositions or layers; Forming noncompositions or layers; Forming no	
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press dies therefor} 11/086 {of coated dies (use of materials as release or lubricating compositions C03B 40/02)} 11/088 {Flat discs} layers; {Forming molten glass of compositions or layers; Forming not compositions or layers; Forming not comprising reinforcements or insections.	•
press dies therefor} layers; {Forming molten glass of compositions or layers; Forming molten glass or layers; Forming molten g	ing from stationary
press dies therefor } layers; {Forming molten glass of o	
11/084 {material composition or material properties of 17/02 . Forming {molten} glass coated with	
	with coloured

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		ampoules
	or additional heating, cooling or insulating	23/112	• • • {Apparatus for conveying the tubes or rods in a
	means}		curved path around a vertical axis through one
23/031	the glass sheets being in a vertical position		or more forming stations}
	(C03B 23/033 takes precedence)	23/114	• • • • {Devices for feeding tubes or rods to these
23/0315	• • • • { and supported on the lower edge }		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	20/110	one or more forming stations}
	pressure, e.g. by applying vacuum {or blowing	23/118	• • • {Apparatus for conveying the tubes or rods in a
22/0252	for supporting the glass while bending}		horizontal or an inclined plane through one or
23/0352	{by suction or blowing out for providing the	23/13	more forming stations}
22/0255	deformation force to bend the glass sheet}	23/13	 Reshaping combined with uniting or heat sealing, e.g. for making vacuum bottles
23/0355	• • • • {by blowing without suction directly on the glass sheet}	23/18	Re-forming and sealing ampoules
23/0357	• • • • {by suction without blowing, e.g. with	23/10	 Re-forming and searing ampoures Uniting glass pieces by fusing without substantial
23/0337	vacuum or by venturi effect}	23/20	reshaping
23/037	•	23/203	 Uniting glass sheets (C03B 23/24 takes)
	by drawing	23/203	precedence)
23/04	Re-forming tubes or rods	23/207	Uniting glass rods, glass tubes, or hollow
23/043	 Heating devices specially adapted for re-forming tubes or rods in general, e.g. burners 	23/207	glassware (C03B 23/24 takes precedence)
23/045	Tools or apparatus specially adapted for re-	23/213	Joining projections or feet
23/043	forming tubes or rods in general, e.g. glass lathes,	23/217	for the production of cathode ray tubes or
	chucks (C03B 23/043 takes precedence)	23/21/	similarly shaped tubes
23/047	• by drawing ({C03B 23/091}, C03B 37/025 takes	23/22	Uniting glass lenses, e.g. forming bifocal lenses
23/04/	precedence)	23/24	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	• 1 unching reneated glass
23/01/		After-treatn	nent of glass products (of fibres C03B 37/10)
	C03B 23/26 take precedence)		nent of glass products (of fibres C03B 37/10)
23/0493		25/00	Annealing glass products
	 C03B 23/26 take precedence) • {in a longitudinal direction, e.g. for upsetting or extrusion} 	25/00 25/02	Annealing glass products . in a discontinuous way
23/0493	<u>C03B 23/26</u> take precedence) {in a longitudinal direction, e.g. for upsetting or	25/00 25/02 25/025	Annealing glass products in a discontinuous way Glass sheets}
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 	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 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} 	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	 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	Annealing glass products in a discontinuous way Glass sheets in a continuous way with horizontal displacement of the glass products of 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 25/06 25/08 25/087	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
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) • by rolling {(C03B 23/095 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 takes precedence) • by rolling {(C03B 23/095 takes precedence)} • by fusing, e.g. for flame sealing (C03B 9/42, 	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)} 	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	 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 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	 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 Tempering {or quenching} glass products
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 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
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	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 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	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
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
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
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 25/025 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} • 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 27/00 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 (CO3B 27/008, CO3B 27/016 take)
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 	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 23/08 23/09 23/091	 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} 	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 . 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
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	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 25/02 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 23/092 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 25/02 25/025 25/04 25/06 25/08 25/087 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 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 gravity, e.g. sagging} • {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 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} fithe liquid being a liquid gas, e.g. a cryogenic
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 rolling} • • {by rolling} • • {by rolling} • • {by rolling} • • {by bending}	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 27/016 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 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} {the liquid being a liquid gas, e.g. a cryogenic liquid, liquid nitrogen}
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 23/096 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 27/008 27/008 27/012 27/016 27/02 27/022 27/024 27/026 27/028	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) 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 rolling} • • {by rolling} • • {by rolling} • • {by rolling} • • {by bending}	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 27/008 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	Savaring appled gloss (savaring gloss fibres
27/0404	arrangements, specially adapted for flat or bent	33/00	Severing cooled glass (severing glass fibres C03B 37/16)
	glass sheets}	33/02	• Cutting or splitting sheet glass {or ribbons};
27/0408	• • {being dismountable}		Apparatus or machines therefor (C03B 33/09 takes
27/0413	• • {Stresses, e.g. patterns, values or formulae for flat		precedence; glass-cutting tools C03B 33/10)
	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
27/0.422	sheets}	22/0222	plane}
27/0422	(for flat or bent glass sheets starting in an horizontal position and ending in a non-horizontal	33/0222	• • {Scoring using a focussed radiation beam, e.g.
	position}	33/023	laser}the sheet {or ribbon} being in a horizontal
27/0426	• • {for bent glass sheets}	33/023	position
27/0431	• • • {the quench unit being adapted to the bend of	33/0235	· · · {Ribbons}
	the sheet (<u>C03B 27/0435</u> takes precedence)}	33/027	Scoring tool holders; Driving mechanisms
27/0435	• • • { the quench unit being variably adaptable to		therefor
	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		or handling sheet glass during the cutting or
27/0442	position (for hort slags shoots)	22/022	breaking operations
27/0442 27/0445	 {for bent glass sheets} {the quench unit being adapted to the bend of	33/033	Apparatus for opening score lines in glass sheets
21/0443	the sheet (C03B 27/0447 takes precedence)}	33/037	Controlling or regulating
27/0447	• • • {the quench unit being variably adaptable to	33/04	Cutting or splitting in curves, especially for
	the bend of the sheet}		making spectacle lenses
27/048	on a gas cushion	33/06	• Cutting or splitting glass tubes, rods, or hollow
27/052	• • for flat or bent glass sheets being in a vertical		products (<u>C03B 33/09</u> takes precedence)
	position	33/07	• Cutting armoured, {multi-layered, coated} or
27/0522	• • • {Nozzles, blow heads, blowing units or their	22/072	laminated, glass products
27/0524	arrangements } {being dismountable}	33/072 33/074	{Armoured glass, i.e. comprising reinforcement}
27/0524	{Stresses, e.g. patterns, values or formulae}	33/074	• • {Glass products comprising an outer layer or 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}
	plates, e.g. hollow glassware, lenses	33/082	• • {using a focussed radiation beam, e.g. laser
27/062	• • {Nozzles or blow-heads, e.g. tubes}		$(\underline{\text{C03B } 33/0855} \text{ takes precedence})$
27/065	• • {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}
29/00	Reheating glass products for softening or fusing	33/09	by thermal shock
	their surfaces; Fire-polishing; Fusing of margins	33/091	• • {using at least one focussed radiation beam, e.g. laser beam (C03B 33/0955 takes precedence)}
29/02	 in a discontinuous way 	33/093	• • {using two or more focussed radiation beams}
29/025	• • {Glass sheets}	33/095	Tubes, rods or hollow products
29/04	• in a continuous way	33/0955	• • • {using a focussed radiation beam, e.g. laser}
29/06	with horizontal displacement of the products	33/10	Glass-cutting tools, e.g. scoring tools
29/08	Glass sheets	33/102	• • {involving a focussed radiation beam, e.g. lasers}
29/10 29/12	being in a vertical positionbeing in a horizontal position on a fluid	33/105	• • {Details of cutting or scoring means, e.g. tips}
4)/14	support, e.g. a gas or molten metal	33/107	• • • {Wheel design, e.g. materials, construction,
29/14	• with vertical displacement of the products	22/12	shape}
29/16	Glass sheets	33/12	Hand tools (wheel design <u>C03B 33/107</u>)
	Manus Contains a Colombia Long and Lladia Language	33/14	 specially adapted for cutting tubes, rods, or hollow products {(for cutting ampoules
31/00	Manufacture of rippled or crackled glass		B67B 7/92)}
32/00	Thermal after-treatment of glass products	25/00	
	not provided for in groups $\{\frac{\text{CO3B 19/00}}{\text{CO3P 25/00}}\}$,	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 $\underline{B65G}$ 49/06)
	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}	25/04	floatation}
32/02	Thermal crystallisation, e.g. for crystallising glass	35/04	 Transporting of hot hollow {or semi-hollow} glass products (<u>C03B 35/26</u> takes precedence)
	bodies into glass-ceramic articles {(C03B 27/012 takes precedence)}	35/06	Feeding of hot hollow glass products into
	ances procedurecy;	55/00	annealing or heating kilns
			- 0

35/062	 • {using conveyors, e.g. chain- or roller conveyors, dead-plates} 	35/188	• • • • {Rollers specially adapted for supplying a gas, e.g. porous or foraminous rollers with
35/064	• • • {specially adapted as a lehr loader}		internal air supply}
35/066	• • • • {combined with article distributing means, e.g. pivoting deflectors, arresting fingers,	35/189	NOTE
	stationary guides}		
35/068	• • • {by gravitational force, e.g. via chutes}		Disc rollers having a discontinuous
35/08	using rotary means directly acting on the		surface are also classified in C03B 35/185
	products	35/20	• • by gripping tongs or supporting frames
35/085	{Transfer mechanisms of the "endless-chain"	35/202	• • • Sy supporting frames (C03B 35/145 takes
	type}	33/202	precedence)}
35/10	using reciprocating means directly acting on	35/205	• • • {the glass sheets being in a vertical position}
	the products, e.g. pushers, stackers	35/207	{Construction or design of supporting
35/12	by picking-up and depositing	33/201	frames}
35/125	{Transfer mechanisms of the "rotary" type,	35/22	• on a fluid support bed, e.g. on molten metal
	e.g. "take-outs", "setting-over" mechanisms}	35/24	
35/14	• Transporting hot glass sheets {or ribbons, e.g. by		on a gas support bed
	heat-resistant conveyor belts or bands}	35/243	• • • {having a non-planar surface, e.g. curved, for bent sheets}
35/142	• • {by travelling transporting tables}	35/246	,
35/145	• • {by top-side transfer or supporting devices, e.g.		{Transporting continuous glass ribbons}
	lifting or conveying using suction}	35/26	. Transporting of glass tubes or rods
35/147	• • · { of the non-contact type }	37/00	Manufacture or treatment of flakes, fibres, or
35/16	by roller conveyors		filaments from softened glass, minerals, or slags
35/161	• • • {specially adapted for bent sheets or ribbons	37/005	Manufacture of flakes
	(<u>C03B 35/166</u> takes precedence)}	37/01	Manufacture of glass fibres or filaments
35/162	• • • {combined with means for thermal adjustment	37/011	• • {starting from a liquid phase reaction process, e.g.
	of the rollers, e.g. cooling (C03B 35/183 takes		through a gel phase}
	precedence)}	37/012	Manufacture of preforms for drawing fibres or
35/163	• • • {Drive means, clutches, gearing or drive speed		filaments
	control means}	37/01202	• • • {Means for storing or carrying optical fibre
35/164	• • • {electric or electronicsystems therefor, e.g.		preforms, e.g. containers}
	for automatic control}	37/01205	• • { starting from tubes, rods, fibres or filaments
35/165	{Supports or couplings for roller ends, e.g.		(C03B 37/014 takes precedence)
	trunions, gudgeons}	37/01208	• • • { for making preforms of microstructured,
35/166	• • • {specially adapted for both flat and bent sheets		photonic crystal or holey optical fibres}
	or ribbons}	37/01211	• • • {by inserting one or more rods or tubes into
35/167	• • • { specially adapted for removing defect sheets,		a tube}
	ribbons or parts thereof}	37/01214	• • • • { for making preforms of multifibres, fibre
35/168	• • • {Means for cleaning the rollers}		bundles other than multiple core preforms}
35/18	Construction of the conveyor rollers {;	37/01217	{for making preforms of polarisation-
	Materials, coatings or coverings thereof}		maintaining optical fibres (polarisation-
35/181	• • • • {Materials, coatings, loose coverings or		maintaining optical fibres per se
	sleeves thereof}		<u>G02B 6/105</u>)}
35/182	• • • { specially adapted for bent sheets or ribbons	37/0122	• • • • {for making preforms of photonic crystal,
	(C03B 35/187 takes precedence)		microstructured or holey optical fibres}
35/183	• • • { specially adapted for thermal adjustment of	37/01222	• • • • {for making preforms of multiple core
	the rollers, e.g. insulating, heating, cooling		optical fibres (preforms of multifibres
	thereof}		<u>C03B 37/01214</u>)}
35/184	{Cooling}	37/01225	• • • {Means for changing or stabilising the shape,
35/185	• • • • {having a discontinuous surface for		e.g. diameter, of tubes or rods in general, e.g.
	contacting the sheets or ribbons other than		collapsing}
	cloth or fabric, e.g. having protrusions or	37/01228	{Removal of preform material
	depressions, spirally wound cable, projecting	27/01221	(<u>C03B 37/01251</u> takes precedence)}
	discs or tires}	37/01231	• • • • • {to form a longitudinal hole, e.g. by
	NOTE	05/0122	drilling}
	Disc rollers having a discontinuous	37/01234	
	surface are also classified in C03B 35/189	27/01027	chamfering }
		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		
	and bent sheets or ribbons, i.e. rollers of	37/01242	draw-down}
	and bent sheets or ribbons, i.e. rollers of adjustable curvature}	37/01242	{Controlling or regulating the down-draw process}

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

27/0216	(Calving the mobilem of dismuntion of drawn	27/022	(for along ontical fibras)
37/0216	• • • {Solving the problem of disruption of drawn fibre, e.g. breakage, start-up, shut-down	37/032 37/035	 {for glass optical fibres} having means for deflecting or stripping-off
	procedures}	37/033	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
277022	product consists of different sorts of glass or	37/04	radial orifices; Construction of the spinner cups
	is characterised by shape, e.g. hollow fibres		therefor (bonder application C03C 25/00)}
	{, undulated fibres, fibres presenting a rough	37/041	• • {Transferring molten glass to the spinner}
	surface (C03B 37/025 takes precedence)}	37/042	• • { starting from tubes, rods, fibres or filaments }
37/023	Fibres composed of different sorts of glass,	37/044	• • • { for producing fibres of at least two distinct
	{e.g. glass optical fibres, made by the double		glass compositions, e.g. bi-component fibres
	crucible technique}		(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}
	$(\underline{\text{C03B } 37/02718} \text{ takes precedence; coating}$	37/047	• • • {Selection of materials for the spinner cups}
37/025	C03C 25/10)}from reheated softened tubes, rods, fibres or	37/048	• • • {Means for attenuating the spun fibres, e.g.
31/023	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)}	27/07	outer surface of the rotating body}
37/0256	{Drawing hollow fibres (<u>C03B 37/02781</u>	37/06	• by blasting or blowing molten glass, e.g. for
	takes precedence)}	27/065	making staple fibres
37/026	Drawing fibres reinforced with a metal wire	37/065	• • • starting from tubes, rods, fibres or filaments
	{or with other non-glass material}	37/07	 Controlling or regulating ({C03B 37/0253 takes precedence }; controlling or regulating in general
37/027	Fibres composed of different sorts of glass,		G05)
	{e.g. glass optical fibres}(<u>C03B 37/0253</u> ,	37/075	• Manufacture of {non-optical} fibres or filaments
	C03B 37/028 take precedence)	31/013	consisting of different sorts of glass or characterised
37/02709	• • • • • {Polarisation maintaining fibres, e.g. PM,		by shape, e.g. undulated fibres (C03B 37/022,
25/02510	PANDA, bi-refringent optical fibres}		C03B 37/027, C03B 37/028 take precedence; light
37/02718	`		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	<u>C03C 25/10</u>)}		component fibres}
	{Annealing or re-heating} {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;
	alignment, butt-joining preforms or		Nozzle plates
	dummy parts during feeding (uniting rods	37/0805	• • {Manufacturing, repairing, or other treatment of
	or tubes <u>C03B 23/207</u>)}	27/001	bushings, nozzles or bushing nozzle plates}
37/02745	• • • • {Fibres having rotational spin around the	37/081	. Indirect-melting bushings
	central longitudinal axis, e.g. alternating	37/083	. Nozzles; Bushing nozzle plates (<u>C03B 37/095</u>
	+/- spin to reduce polarisation mode	27/095	takes precedence)
	dispersion}	37/085	Feeding devices therefor aleatrically beated.
37/02754		37/09 37/001	electrically heated
27/027/2	preforms}	37/091 37/092	 {Indirect-resistance heating} Direct-resistance heating
37/02763	• • • • {Fibres having axial variations, e.g. axially varying diameter, material	37/092 37/095	Direct-resistance neating Use of materials therefor
	or optical properties (rotational spin	37/093	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)
31102112	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 \(\)\(\(\((\color{1}\)\)\(\(\color{1}\)\)\(\(\color{1}\)\(\color{1}\)\(\(\color{1}\)
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 (fusion-splicing of light guides
	optical fibres other than holey optical		G02B 6/255; treatment of light guides to
	fibres}		shape optical elements {G02B 6/2835,
37/028	Drawing fibre bundles, e.g. for making	C= /4 :	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 C03B 37/027)}	40/00	Preventing adhesion between glass and glass or
37/029	· · · · Furnaces therefor		between glass and the means used to shape it {,
37/029	Drawing means, e.g. drawing drums {; Traction		hold it or support it}
5,703	or tensioning devices}	40/005	• {Fabrics, felts or loose covers}
	<i>G</i> ,		

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	D : 1:1 (: 161 1: (1 6 1 11	2205/92	
2205/12	Drawing solid optical fibre directly from a hollow preform	2205/83	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		perpendicular to the draw axis
2205/32	Simultaneous drawing of multiple preforms to	2205/98	using annular gas inlet distributors
	separate multiple fibres		
2205/40	Monitoring or regulating the draw tension or draw	2207/00	Glass deposition burners
	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
	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
	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
	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
	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
2205/52	by direct contact with liquid coolant, e.g. as	2207/22	Inert gas details
	spray, mist	2207/24	Multiple flame type, e.g. double-concentric flame
2205/53	by passage through liquid coolant bath	2207/26	Multiple ports for glass precursor
2205/54	After-treatment to remove coolant attached to	2207/28	for different glass precursors, reactants or
	cooled fibre		modifiers
2205/55	Cooling or annealing the drawn fibre prior to	2207/30	• For glass precursor of non-standard type, e.g. solid
	coating using a series of coolers or heaters		SiH₃F
2205/56	 Annealing or re-heating the drawn fibre prior to 	2207/32	Non-halide
	coating	2207/34	. Liquid, e.g. mist or aerosol
2205/57	• Recovering, recycling or purifying the coolant, e.g.	2207/36	• Fuel or oxidant details, e.g. flow rate, flow rate
	helium		ratio, fuel additives
2205/60	Optical fibre draw furnaces	2207/38	. Fuel combinations or non-standard fuels, e.g.
2205/61	Recovering, recycling or purifying the inert gas,	2205/40	H ₂ +CH ₄ , ethane
	e.g. helium	2207/40	Mechanical flame shields
2205/62	Heating means for drawing	2207/42	• Assembly details; Material or dimensions of burner;
2205/63	Ohmic resistance heaters, e.g. carbon or	2207/46	Manifolds or supports
	granhite registance heaters		C C 1
	graphite resistance heaters	2207/46	Comprising performance enhancing means, e.g.
2205/64	Induction furnaces, i.e. HF/RF coil, e.g. of the		electrostatic charge or built-in heater
	Induction furnaces, i.e. HF/RF coil, e.g. of the graphite or zirconia susceptor type	2207/50	electrostatic charge or built-in heater Multiple burner arrangements
2205/64	Induction furnaces, i.e. HF/RF coil, e.g. of the graphite or zirconia susceptor type Microwave or similar electromagnetic wave	2207/50 2207/52	electrostatic charge or built-in heater Multiple burner arrangements Linear array of like burners
2205/66	 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 	2207/50	 electrostatic charge or built-in heater Multiple burner arrangements Linear array of like burners combined with means for heating the deposit, e.g.
2205/66 2205/67	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	2207/50 2207/52 2207/54	 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
2205/66 2205/67 2205/68	 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 	2207/50 2207/52	 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.
2205/66 2205/67	 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 	2207/50 2207/52 2207/54 2207/60	 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
2205/66 2205/67 2205/68	 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 	2207/50 2207/52 2207/54 2207/60 2207/62	 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
2205/66 2205/67 2205/68 2205/69	 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 	2207/50 2207/52 2207/54 2207/60 2207/62 2207/64	 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
2205/66 2205/67 2205/68 2205/69 2205/70	 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 	2207/50 2207/52 2207/54 2207/60 2207/62 2207/64 2207/66	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
2205/66 2205/67 2205/68 2205/69	 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 	2207/50 2207/52 2207/54 2207/60 2207/62 2207/64 2207/66 2207/70	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
2205/66 2205/67 2205/68 2205/69 2205/70 2205/72	 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 	2207/50 2207/52 2207/54 2207/60 2207/62 2207/64 2207/66	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
2205/66 2205/67 2205/68 2205/69 2205/70	 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 	2207/50 2207/52 2207/54 2207/60 2207/62 2207/64 2207/66 2207/70 2207/80	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
2205/66 2205/67 2205/68 2205/69 2205/70 2205/72	 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 	2207/50 2207/52 2207/54 2207/60 2207/62 2207/64 2207/66 2207/70	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.
2205/66 2205/67 2205/68 2205/69 2205/70 2205/72 2205/74	 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 	2207/50 2207/52 2207/54 2207/60 2207/62 2207/64 2207/66 2207/70 2207/80	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
2205/66 2205/67 2205/68 2205/69 2205/70 2205/72	 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 	2207/50 2207/52 2207/54 2207/60 2207/62 2207/64 2207/66 2207/70 2207/80	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
2205/66 2205/67 2205/68 2205/69 2205/70 2205/72 2205/74	 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 	2207/50 2207/52 2207/54 2207/60 2207/62 2207/64 2207/66 2207/70 2207/80 2207/81	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
2205/66 2205/67 2205/68 2205/69 2205/70 2205/72 2205/74	 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 	2207/50 2207/52 2207/54 2207/60 2207/62 2207/64 2207/66 2207/70 2207/80	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		<u>C03B 2215/47</u> or <u>C03B 2215/48</u>
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		type
2215/12	Ceramics or cermets, e.g. cemented WC,	2215/73	with means to allow glass overflow in a direction
	Al ₂ O ₃ or TiC		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
	glass-contacting layers	2215/76	Pressing whereby some glass overflows
2215/16	Metals or alloys, e.g. Ni-P, Ni-B, amorphous		unrestrained beyond the press mould in a direction
	metals		perpendicular to the press axis
2215/17	comprising one or more of the noble	2215/77	with means to trim off excess material
	meals, i.e. Ag, Au, platinum group metals	2215/78	Pressing together along two or more perpendicular
2215/20	Oxide ceramics		axes
2215/22	Non-oxide ceramics (carbon C03B 2215/24)	2215/79	• Uniting product and product holder during pressing,
2215/24	Carbon, e.g. diamond, graphite, amorphous		e.g. lens and lens holder
2210,2.	carbon	2215/80	Simultaneous pressing of multiple products;
2215/26	Mixtures of materials covered		Multiple parallel moulds
	by more than one of the groups	2215/86	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
	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
	top material		•
2215/31	Two or more distinct intermediate layers or	2225/00	Transporting hot glass sheets during their
	zones		manufacture
2215/32	of metallic or silicon material	2225/02	• Means for positioning, aligning or orientating the
2215/34	of ceramic or cermet material, e.g. diamond-		sheets during their travel, e.g. stops
2215/54	like carbon		
2215/38	Mixed or graded material layers or zones		
2215/38 2215/40	Product characteristics		
2215/40	Product characteristics		