

Search history

Search FT=(mold 1w body) (Results 13167)
1:

Search FT=(hanger 1w recess) (Results 106)
2:

Search FT=(mold 1w hanger) (Results 70)
3:

Search FT=(light 1w collector) (Results 3158)
4:

Search FT=(infrared 1w light) (Results 107225)
5:

Search 1 and 2 and 3 and 4 and 5 (Results 1)
6:

Search [SP]: 1. apparatus to sense temperature in a glassware forming machine, comprising: a mold body including a longitudinally extending inboard axis, an inboard side, an outboard side, a lower end, and an upper end, a hanger recess at the outboard side, an exterior surface, a mold cavity having an interior mold surface, and a blind hole having a closed end including a closed end surface adjacent to and spaced outwardly from the interior mold surface, wherein the blind hole extends outwardly from the closed end surface toward the exterior surface and includes an open end in the outboard side of the mold body within the hanger recess a mold hanger on which the mold body is removably carried, wherein the mold hanger is at least partially carried in the hanger recess of the mold body and includes an inboard side, an outboard side, a lower end, and an upper end, and a hanger hole that extends between the outboard side and the inboard side and is aligned with the blind hole of the mold body and a light collector carried by the mold hanger to collect infrared light emitted within the blind hole. 2. the apparatus set forth in claim 1 wherein the blind hole extends radially with respect to the axis. 3. the apparatus set forth in claim 1 wherein the light collector is at least partially disposed in the hanger hole. 4. the apparatus set forth in claim 3 wherein the hanger hole is a through hole extending between the inboard and outboard sides of the hanger and the light collector is coupled to the hanger at an outboard end of the hanger through hole. 5. the apparatus set forth in claim 1 wherein the light collector includes a light pipe. 6. the apparatus set forth in claim 5, wherein the light pipe is a sapphire light pipe. 7. the apparatus set forth in claim 1 wherein the light collector has a free end and is carried in such a manner that the free end does not extend into the blind hole of the mold body. 8. the apparatus set forth in claim 7 wherein the free end is substantially flush with and immediately adjacent the inboard surface of the inboard side of the hanger. 9. the apparatus set forth in claim 1 wherein the blind hole has a depth to diameter ratio of at least 4:1, wherein the diameter of the blind hole is two to four mm. 10. the apparatus set forth in claim 1 wherein the thickness of the mold body in a location between the interior mold surface and the closed end surface is at least two millimeters. 11. a glassware forming apparatus that includes: a glassware mold body including a longitudinally extending inboard axis, an inboard side, an outboard side, a lower end, and an upper end, a mold cavity in the inboard side for forming a glassware article, and a blind hole in the glassware mold body extending outwardly toward an exterior surface of the mold body from a closed end surface of the blind hole adjacent to an interior surface of the mold body cavity a mold hanger disposed at the outboard side of the mold body and on which the mold body is removably carried and including an inboard side, an outboard side, a lower end, and an upper end, and a hanger hole extending between the outboard side and the inboard side in alignment with the blind hole of the mold body and a pyrometric apparatus including a pyrometer, and a light collector at least partially disposed in the hanger hole to collect infrared light from the blind hole for transmission to the pyrometer. 12. the apparatus set forth in claim 11 wherein the blind hole extends radially with respect to the axis. 13. the apparatus set forth in claim 11 wherein light collector includes a light pipe. 14. the apparatus set forth in claim 13 wherein the light pipe is a sapphire light pipe. 15. the apparatus set forth in claim 11 wherein the hanger hole is a through hole extending between the inboard and outboard sides of the hanger and the light collector is coupled to the hanger at an outboard end of the hanger through hole. 16. the apparatus set forth in claim 11 wherein the light collector has a free end and is carried in such a manner that the free end does not extend into the blind hole of the mold body. 17. the apparatus set forth in claim 16 wherein the free end is substantially flush with and immediately adjacent the inboard surface of the inboard side of the hanger. 18. the apparatus set forth in claim 11 wherein the blind hole has a depth to diameter ratio of at least 4:1, wherein the diameter of the blind hole is two to four mm, and the thickness of the mold body in a location between the interior surface of the mold body and the closed end surface is at least two millimeters. (Results 0)

Search CPC=(C03B9/347 or C03B9/41 or C03B9/353 or C03B9/38) (Results 491)
8:

Search 4 and 5 and 8 (Results 1)
9:

Search 1 and 5 (Results 52)
10:

Search glass and 10 (Results 39)
11:

Search 8 and glass (Results 419)
12:

Search 12 and 5 (Results 3)
13:

Search 1 and 8 (Results 13)
14:

Search FT=(mold and (temperature 1w control)) and CPC=(C03B9/347 or C03B9/41 or C03B9/353 or C03B9/38) (Results 11)
15:

Title: CLOSED LOOP BLANK MOLD TEMPERATURE CONTROL SYSTEM AND METHOD

Abstract: Source: US2012261850A [EN] A closed loop blank mold temperature control system and method for use in the operation of an I.S. machine is disclosed for automatically adjusting machine timing to maintain desired blank mold temperature/heat extraction. The closed loop blank mold temperature control system uses measured blank mold temperatures to automatically control the supply of coolant **air** to the blank molds, which may be done independently to each blank mold half as well as independently to the plunger for each blank mold. The closed loop blank mold temperature control system can provide temperature setpoint commands, balance left and right parison temperatures, and maintain parison temperatures as a setpoint, all of which contribute to enhanced final glass container quality.

Classifications:**International (IPC 8-9):** B29C49/06 B29C49/12 B29C49/48

B29C49/64 B29C49/78 C03B9/00 C03B9/38 C03B9/41

G09D (Advanced/Invention);

B29C49/12 (Advanced/Non-invention);

G09D (Subclass/Invention)

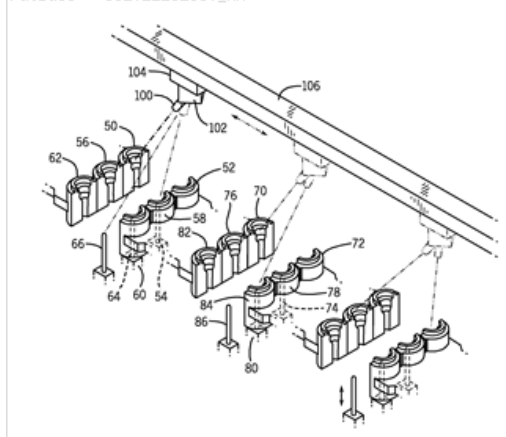
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C03B9/41 Y02P40/57 C03B9/13 C03B9/34 C03B9/40

European: C03B9/38D C03B9/38J C03B9/41**US:** 264/40.6 425/143

PatBase - US2012261850_AA

**Family:**

Publication number	Publication date	Application number	Application date
EP2511245 A2	20121017	EP20120158307	20120306
EP2511245 A3	20140820	EP20120158307	20120306
IN00875DE2012 A	20150904	IN2012DE00875	20120326
JP2012219011 A2	20121112	JP20120090793	20120412
JP5972647 B2	20160817	JP20120090793	20120412
RU2012114319 A	20131020	RU20120114319	20120411
RU2601076 C2	20161027	RU20120114319	20120411
US2012261850 AA	20121018	US20120404732	20120224
US9580345 BB	20170228	US20120404732	20120224

Priority:

US20110474532P 20110412

US20110541148P 20110930

US20120404732 20120224

Probable Assignee: EMHART GLASS SA**Assignee(s):** (std): EMHART GLASS SA ; EMKHART GLASS S A ; SIMON JONATHAN S**Assignee(s):** EMHART GLASS S A ; EMKHART GLASS SA**Inventor(s):** (std): JONATHAN S SIMON ; SAJMON DZHONATAN S ; SIMON JONATHAN S**Agent(s):** WARREN ANTHONY ROBERT; OHTSUKA SUMIE; HOSHINO OSAMU; ONO SHINJIRO; TOMITA HIROYUKI; KOBAYASHI YASUSHI; REINHART BOERNER VAN DEUREN PC**Designated states:** AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: TEMPERATURE CONTROL FOR THE FORMING UNITS OF A MACHINE OF THE PRESS AND BLOW TYPE

Abstract: Source: US4104046A [EN] An automatic temperature control system for the forming units of a machine of the press and blow type. It comprises a system for automatically sensing the need for and supplying cooling **air** to the individual forming units, in accordance with heat transfer therefrom, so that controlled temperatures can be maintained in the various units to thereby form ware of uniform characteristics in the various units.

Classifications:

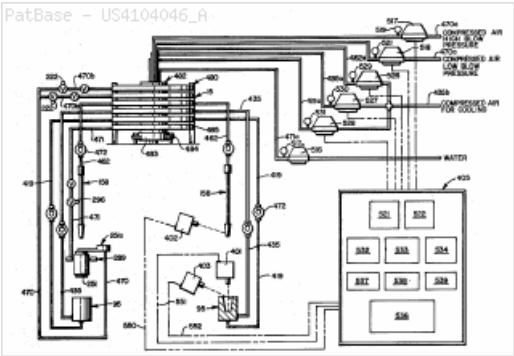
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International (IPC 1-7): C03B11/12 C03B9/40

CPC: C03B9/195 C03B9/3816 C03B9/3825 C03B9/3875 C03B9/41 Y10S65/13

European: C03B9/195 C03B9/38 C03B9/38D C03B9/38E C03B9/38J C03B9/41

US: 65/161 65/162 65/356 65/DIG.13



Family:

Publication number	Publication date	Application number	Application date
US4104046 A	19780801	US19770807169	19770616

Priority:

US19770807169 19770616

Probable Assignee: GLASS INDUSTRY CONSULTANTS INC

Assignee(s): (std): GLASS IND CONSULTANTS INC ; GLASS INDUSTRY CONSULTANTS INC

Inventor(s): (std): MCCREERY CECIL WAYNE

Title: ENVIRONMENTAL CONTROL SYSTEM FOR GLASS MANUFACTURING

Abstract: Source: US3416908A [EN] ABSTRACT OF THE DISCLOSURE An environmental control system for use in the manufacture of glass in which any one or all of the variables in controlling the temperature of glass during manufacture may be determined and regulated. Means is described to maintain control over temperature, pressure, and humidity by artificial means whereby the thermal history of glass may be predetermined for consistent quality in glass manufacture. An alternate system using separately controlled convertor units for control of the cooling environment in various areas during manufacture of glass is also shown.

Classifications:

International (IPC 8-9): C03B9/38 (Advanced/Invention);
C03B9/00 (Core/Invention)

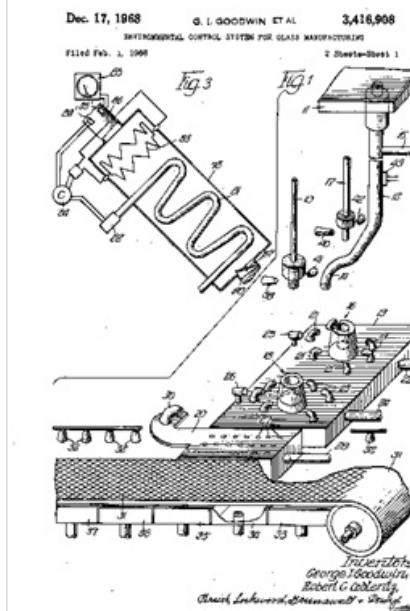
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European: C03B9/38 C03B9/38D C03B9/38V

US: 236/44R 65/111 65/161 65/162 65/355

PatBase - US3416908_A



Family:

Publication number	Publication date	Application number	Application date
DE1930710 A1	19701223	DE19691930710	19690618
US3416908 A	19681217	US19660524285	19660201

Priority:

DE19691930710 19690618 US19660524285 19660201

Probable Assignee: GOODWIN COBLENTZ ASSOCIATES IN

Assignee(s): (std): GOODWIN COBLENTZ ASSOCIATES IN

Assignee(s): GOODWIN COBLENTZ ASSOCIATES INC

Inventor(s): (std): C COBLENTZ ROBERT ; COBLENTZ ROBERT C ; GOODWIN GEORGE I ; IVERSON GOODWIN GEORGE

Title: GLASS PRODUCT FORMING MACHINE

Abstract: Source: US2012186301A [EN] In a glass product forming machine having molds 1A and 1B each composed of a pair of split molds 11 and 12, and a mold cooling device X for cooling the molds 1A and 1B to control the temperatures thereof, in order to prevent the occurrence of a defect such as deformation or cracks in a formed article due to a temperature difference between the split molds 11 and 12, the mold cooling device X is configured to include: cooling mechanisms 3R and 3L provided to the respective split molds, the cooling mechanisms each individually applying cooling **air** to each of the split molds 11 and 12 of the molds 1A and 1B; valve mechanisms 30R and 30L for individually opening and closing each of paths for introducing cooling **air** to the respective cooling mechanisms 3R and 3L; temperature detection means for detecting the temperature of at least one of the split molds; and a temperature control device 9 for generating and outputting control signals for controlling the opening and closing operations of the respective valve mechanisms 30R and 30L on the basis of the detected temperature value by the temperature detection means.

Classifications:

International (IPC 8-9): B41M B65D1/00 B65D1/02 C03B11/16 C03B7/06 C03B9/38 C03B9/41 (Advanced/Invention);

C03B9/38 C03B9/41 (Core/Invention)

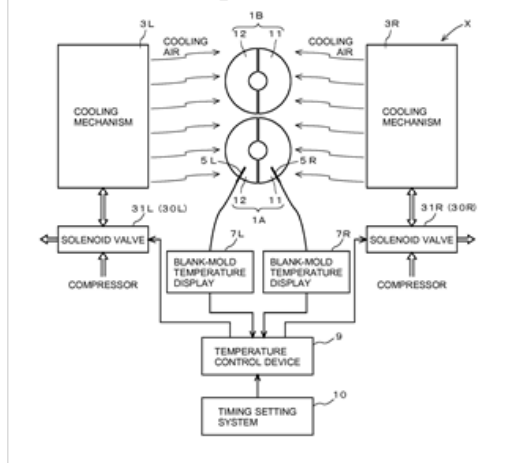
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European: C03B9/38D C03B9/38J C03B9/38J2 C03B9/38V

C03B9/41

US: 65/162 65/162P

PatBase - US2012186301_AR



Family:

Publication number	Publication date	Application number	Application date
CN102548918 A	20120704	CN201080042403	20100924
CN102548918 B	20150812	CN201080042403	20100924
EP2484642 A1	20120808	EP20100820436	20100924
EP2484642 A4	20150603	EP20100820436	20100924
IN03237DN2012 A	20140207	IN2012DN03237	20120413
JP2011040318 A1	20130228	JP20110534214T	20100924
JP5995443 B1	20160921	JP20110534214T	20100924
KR101441592 B1	20140923	KR20127002966	20100924
KR20120038995 A	20120424	KR20127002966	20100924
TH120467 A	20130128	TH20121001471	20100924
US2012186301 AA	20120726	US20100499600	20100924
US9598300 BB	20170321	US20100499600	20100924
WO11040318 A1	20110407	WO2010JP66497	20100924

Priority:

JP20090227321 20090930 WO2010JP66497 20100924

Probable Assignee: NIHON YAMAMURA GLASS CO LTD

Assignee(s): (std): KATAOKA MASAKI ; KOTOH TAKAHIRO ; NIHON YAMAMURA GLASS CO LTD ; NISHIMURA TAKAHIRO ; OHNO SHINTARO

Assignee(s): NIHON YAMAMURA GLASS CO

Inventor(s): (std): KATAOKA MASAKI ; KOTOH TAKAHIRO ; MASAKI KATAOKA ; NISHIMURA TAKAHIRO ; OHNO SHINTARO ; SHINTARO OHNO ; TAKAHIRO KOTOH ; TAKAHIRO NISHIMURA

Agent(s): MANITZ FINSTERWALD AND PARTNER GBR; RABIN AND BERDO PC; SUZUKI YOSHIMITSU ET AL

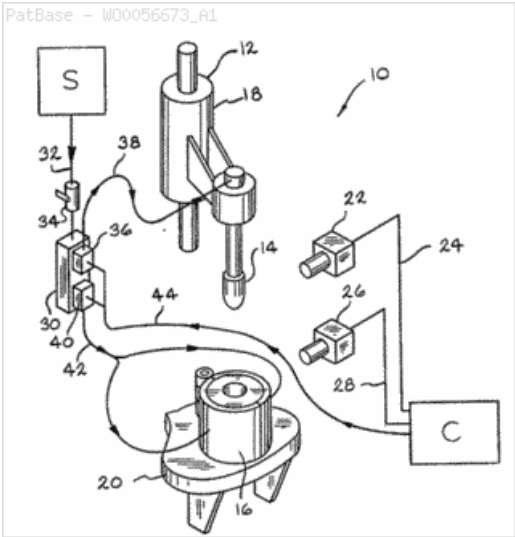
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Title: TEMPERATURE CONTROL SYSTEM FOR A GLASSWARE MACHINE

Abstract: A temperature control system (10) for maintaining the temperatures of a plunger (14) operated by a pressing cylinder (18) and a mold (16) located on a plarform (20) of a glassware machine (12). The system includes a controller (C) communicating with plunger and mold thermal sensors (22 and 26) via lines (24 and 28) for sensing the plunger and mold temperatures. The system further includes a supply (S) of fluid communicating with the plunger and the mold via lines (38 and 42). A shut-off valve (34) is placed in line (32) and a regulation valve (30) including plunger valve (36) and a mold valve (40) communicates with the controller via line (44) to regulate the flow of fluid from the supply of fluid to the plunger and the mold.

Classifications:

International (IPC 8-9): C03B11/12 C03B11/16 C03B9/41 (Advanced/Invention);
C03B11/12 C03B11/16 C03B9/00 (Core/Invention)
International (IPC 1-7): C03B11/12 C03B11/16
CPC: C03B9/41 C03B11/127 C03B11/16
European: C03B11/12C2 C03B11/16 C03B9/41



Family:

Publication number	Publication date	Application number	Application date
WO0056673 A1	20000928	WO2000US04531	20000223

Priority:

US19990275475 19990324

Probable Assignee: LIBBEY GLASS INC

Assignee(s): (std): LIBBEY GLASS INC

Inventor(s): (std): CROTS DAVID E ; HARTMAN TERRY E ; KROH HERBERT C

Designated states: AT BE BR CH CN CY DE DK ES FI FR GB GR IE IT JP LU MC MX NL PT SE TR ZA

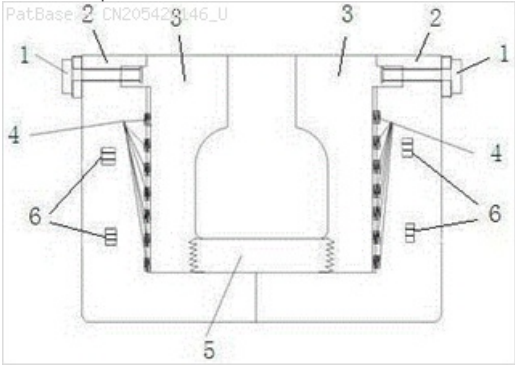
Title: BUT REMOVABLE TEMPERATURE MEASUREMENT GLASS BOTTLE CLASS MOULD

Abstract: Source: CN205420146U [EN] The utility model discloses a but removable temperature measurement glass bottle class mould, including outer mould, inlayer mould, inlayer mould base and accuse temperature measuring device, the same one side of its characterized in that the upper end of outer mould with the upper end connection of inlayer mould is fixed, same one side the inlayer mould with have the gap between the outer mould, have a set of spring between the gap, the one end of spring embedded in outer mould, the other end with the contact of inlayer mould, inlayer mould base is connected with the inlayer mould, accuse temperature measuring device includes temperature sensor, signal processor, temperature? monitor and refrigerating plant. The utility model discloses an advantage: 1) simple structure, the low price, 2)The mould is removable to trade material saving, 3)Can monitor and control glass mold's temperature.

Classifications:

International (IPC 8-9): C03B9/347 (Advanced/Invention)

CPC: C03B9/347



Family:

Publication number	Publication date	Application number	Application date
CN105565645 A	20160511	CN201610077112	20160204
CN205420146 U	20160803	CN201620111219U	20160204

Priority:

CN201610077112 20160204 CN201620111219U 20160204

Probable Assignee: NANJING INST TECHNOLOGY

Assignee(s): (std): NANJING INST OF TECH ; NANJING INST OF TECHNOLOGY ; NANJING INST TECHNOLOGY

Inventor(s): (std): JI QICHAO ; XIA ZHIPENG ; ZHANG WENQUAN ; ZHU DASHENG

Title: Method for forming a green body of ceramic arc tubes used for a metal vapor discharge lamp and a molding die for forming said tube

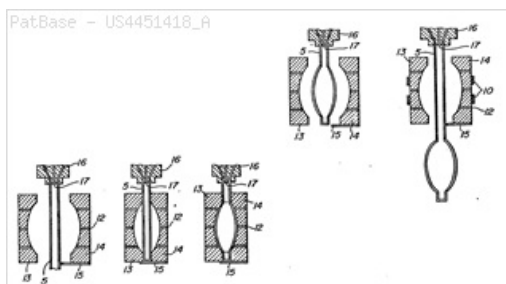
Abstract: Source: US4451418A [EN] A ceramic green arc tube for a metal vapor discharge lamp wherein an outer diameter of the arc discharging portion is larger than that of the end portions holding the discharging electrodes is produced by preparing a stiff plastic body consisting mainly of a ceramic material or which main component is alumina, and a binder of which main component is thermal gelatinizing organic substance; forming the prepared body into a straight tubular body by means of an extruder; placing the tubular body into an inner cavity of molding die having the above described ceramic arc tube shape wherein the molding die has been previously heated; closing one end portion of the tubular body; applying a compressed fluid from another opened end portion of the tubular body into the inside of said tubular body to inflate the central portion of tubular body until contacting to the inner cavity surface of the molding die; hardening and drying the inflated body with the heat of previously heated molding die; and ejecting the dried body from the die. This production is characterized in that the forming is effected by using a die comprising two halves of die divided by a plane parallel to an axial direction of the tube, said two halves forming an inner circumferential cavity conforming to the shape of the tube when the two halves are engaged, vents provided at the cavity portion and perforating from the inner surface of the cavity to the outside, and heating means.

Classifications:

International (IPC 8-9): B28B11/00 B28B21/20 B28B21/98
B28B3/00 C03B17/04 C03B7/08 C03B9/347 C03B9/36 C04B35/636
H01J61/30 H01J9/24 (Advanced/Invention);
B28B11/00 B28B21/00 B28B21/02 B28B3/00 C03B17/00 C03B7/00
C03B9/00 C04B35/63 H01J61/30 H01J9/24 (Core/Invention)
International (IPC 1-7): B28B21/20 B28B21/38 B28B21/42
B28B21/52 B28B21/78 B28B21/82 B28B21/98 C04B35/64 H01J61/00
H01J61/30 H01J9/24

CPC: B28B3/006 B28B11/003 B28B11/008 C03B7/08 C03B9/347
C03B9/36 C03B17/04 C04B35/6365 H01J9/247 H01J61/30
European: B28B11/00E B28B11/00E3 B28B3/00C C03B17/04
C03B7/08 C03B9/347 C03B9/36 C04B35/636B H01J61/30
H01J9/24D2

US: 264/1.2 264/1.21 264/209.1 264/523 264/540 264/63 264/634



Family:

Publication number	Publication date	Application number	Application date
AU198286704 A1	19830811	AU19820086704	19820803
AU539550 B2	19841004	AU19820086704	19820803
CA1196772 A1	19851119	CA19820408585	19820803
DE3270619 D1	19860522	DE19823270619	19820803
EP0072190 A2	19830216	EP19820304102	19820803
EP0072190 A3	19830622	EP19820304102	19820803
EP0072190 B1	19860416	EP19820304102	19820803
HU185349 B	19850128	HU19820002503	19820803
JP1006008 B4	19890201	JP19810121316	19810804
JP1526028 C3	19891030	JP19810121316	19810804
JP58023158 A2	19830210	JP19810121316	19810804
JP64006008 B4	19890201	JP19810121316	19810804
US4451418 A	19840529	US19820403401	19820730

Priority:

JP19810121316 19810804 JP20000131681 19810804

Probable Assignee: NGK INSULATORS LTD

Assignee(s): (std): NGK INSULATORS LTD

Assignee(s): NGK INSULATORS LTD 2 56 SUDA CHO MIZUHO KU NAGOYA ; NIHON GAISHI KK ; NGK INSULATORS LTD JP

Inventor(s): (std): FURUTA MAMORU ; KOBAYASHI KAZUO ; MAENO YOSHIO

Inventor(s): MAENO YOSHIO JP ; MAMORU FURUTA ; YOSHIO MAENO ; KOBAYASHI KAZUO JP ; FURUTA MAMORU JP ; KAZUO KOBAYASHI

Agent(s): DAVIES COLLISON CAVE

Designated states: DE FR GB NL

Title: PARISON FORMING APPARATUS

Abstract: Source: US2016052817A [EN] A parison forming apparatus comprising: a molding die into which a gob is introduced; a plunger 1 entering into the inside of the molding die for forming a parison from the gob together with the molding die; a cylinder that allows the plunger 1 to reciprocally move with respect to the molding die; and a cooling device for introducing cooling **air** into the inside of the plunger 1 to cool the plunger 1. The base end portion of the plunger 1 is connected to and held by the head of a piston rod 12 of the cylinder via a plunger holding mechanism 2. The plunger holding mechanism 2 has an adapter 21 connected to the head of the piston rod 12, and the adapter 21 is integrally provided with a tubular part 33 having a fitting hole 32 adapted to the cylindrical outer shape of the base end portion of the plunger 1. The base end portion of the plunger 1 is fitted in and held by the fitting hole 32 of the tubular part 33 while a connection ring 22 for connecting the adapter 21 and the base end portion of the plunger 1 fitting on the tubular part 33 of the adapter 21. The inside of the plunger 1 communicates with an **air** discharge passage through an exhaust passage 27 provided on the adapter 21, and the **air** discharge passage is configured to communicate with an exhaust device for guiding the **air** after cooling to the **air** discharging passage by applying a suction force to the **air** discharge passage, thereby exhausting the **air** to the outside.

Classifications:

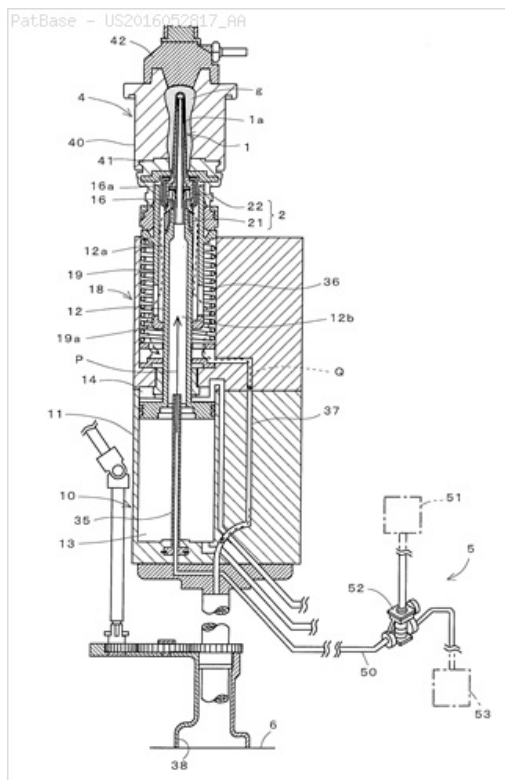
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C03B9/41 (Advanced/Invention)

CPC: C03B9/1934 C03B9/3883 C03B9/3891 C03B9/41 C03B9/1932

C03B9/1936 C03B9/3816 C03B9/3825

US: 65/162 65/319



Family:

Publication number	Publication date	Application number	Application date
CN105228960 A	20160106	CN201480017597	20140320
EP2980032 A1	20160203	EP20140774251	20140320
EP2980032 A4	20161228	EP20140774251	20140320
JP2014156941 A1	20170216	JP20150508405T	20140320
US2016052817 AA	20160225	US20140780524	20140320
WO14156941 A1	20141002	WO2014JP57727	20140320

Priority:

JP20130064689 20130326 WO2014JP57727 20140320

Probable Assignee: NIHON YAMAMURA GLASS CO LTD

Assignee(s): (std): NIHON YAMAMURA GLASS CO LTD

Assignee(s): NIHON YAMAMURA GLASS CO

Inventor(s): (std): KATAOKA MASAKI ; SATO AKIHIRO ; UEDA MITSUO ; WADA RYU

Agent(s): MANITZ FINSTERWALD AND PARTNER GBR; SAEGUSA AND PARTNERS; SUZUKI YOSHIMITSU ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: AUTOMATED CONTROL OF GLASS CONTAINER MANUFACTURE

Abstract: Source: US4762544A [EN] A glassware production system includes an electropneumatic individual section glass forming machine having a multiplicity of operating mechanisms for converting a gob of molten glass into a hollow glass container. A glass forehearth feeds molten gobs at controlled temperature and weight to the forming machine. Electronic controllers individually and selectively control parameters of operation of the multiplicity of machine mechanisms and the forehearth. Glassware from the forming machine is inspected for manufacturing faults and for identifying each inspected container with its associated mold of origin. The glassware inspection devices provide fault signals indicative of a plurality of differing types of faults, which are thereafter associated not only with mold or section of origin but also with fault cause. The differing types of fault signals are thus coordinated with associated operating parameters of the forming machine and forehearth, and such operating parameters are automatically varied at the machine and forehearth controllers to correct detected faults.

Classifications:

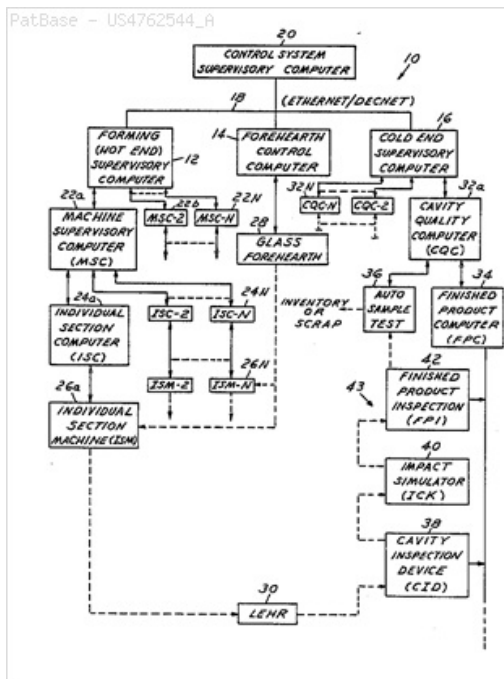
International (IPC 8-9): B07C5/34 C03B32/00 C03B35/00 C03B7/08 C03B9/40 C03B9/41 (Advanced/Invention); B07C5/34 C03B9/00 (Core/Invention)

International (IPC 1-7): B07C5/34 C03B32/00 C03B35/00 C03B7/08 C03B9/13 C03B9/40 C03B9/41

CPC: Y02P40/57 B07C5/3408 C03B9/41

European: B07C5/34A1 C03B9/41

US: 209/523 209/525 209/526 209/583 65/158 65/162 65/163 65/164 65/29 65/29.11 65/29.21



Family:

Publication number	Publication date	Application number	Application date
AU198780933 A1	19880707	AU19870080933	19871109
AU581376 B2	19890216	AU19870080933	19871109
BRPI8707165 A	19880816	BR1987PI07165	19871230
CA1279763 A1	19910205	CA19870550894	19871103
DE3742501 A1	19880714	DE19873742501	19871215
DE3742501 C2	19910613	DE19873742501	19871215
ES2006533 AF	19890501	ES19870003778	19871231
FR2609290 A1	19880708	FR19870018428	19871230
FR2609290 B1	19930219	FR19870018428	19871230
GB2199319 A1	19880706	GB19870027706	19871126
GB2199319 B2	19901212	GB19870027706	19871126
GB8727706 A0	19871231	GB19870027706	19871126
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IT8748700 A0	19871211	IT19870048700	19871211
JP1641905 C3	19920218	JP19870311164	19871210
JP3007610 B4	19910204	JP19870311164	19871210
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NZ222429 A	19891027	NZ19870222429	19871103
US4762544 A	19880809	US19870000257	19870102
ZA8708252 A	19880502	ZA19870008252	19871103

Priority:

CA19870550894 19871103 US19870000257 19870102

Probable Assignee: OWENS ILLINOIS GLASS CONTAINER

Assignee(s): (std): OWENS ILLINOIS GLASS CONTAINER

Assignee(s): OWENS ILLINOIS GLASS CONTAINER I ; OWENS ILLINOIS GLASS CONTAINER INC ; OWENS ILLINOIS GLASS CONTAINER INC TOLEDO OHIO US ; OWENS ILLINOIS INC ; DAVEY RICHARD GLENN ; OSENSU IRINOI GURASU KONTENAA INC

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Inventor(s): RICHARD GLENN DAVEY ; DAVEY RICHARD GLENN TOLEDO OHIO US

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; GOWLING LAFLEUR HENDERSON LLP

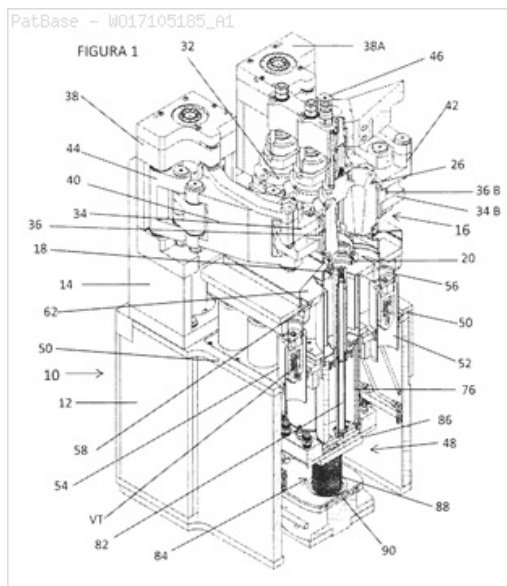
Title: SYSTEM AND METHOD FOR COOLING MOULDS FOR A MACHINE USED TO FORM HOLLOW GLASS ITEMS

Abstract: The invention relates to a system and a method for cooling moulds of a machine used to form hollow glass items, of the type that comprises arms for carrying mould halves movable between a closed mould position and an open mould position, each mould half having axial passages for the cooling thereof. The system allows the adaptation thereof to different sizes of mould and the cooling of the mould halves in any position between the closed mould position and the open mould position. To this end, it has a height-adjustable upper plate on which a chamber for the distribution of cooling fluid to the axial passages of the moulds is moved, cooling ducts being connected to said upper plate so as to provide cooling fluid from a plenum box.

Classifications:

International (IPC 8-9): C03B9/38 (Advanced/Invention)

CPC: C03B9/38



Family:

Publication number	Publication date	Application number	Application date
WO17105185 A1	20170622	WO2015MX00191	20151215

Priority:

WO2015MX00191 20151215

Probable Assignee: VITRO S A B DE C V

Assignee(s): (std): VITRO S A B DE C V

Assignee(s): VITRO SAB DE CV

Inventor(s): (std): TIJERINA RAMOS VICTOR

Agent(s): OLIVIER TENORIO MIGUEL ANGEL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

