

Search history

Search 1: SFT=(opening and closing mechanism and glass mold) (Results 5)
Search 2: open close mechanism and glass mold (Results 1)
Search 3: support arms and glass mold and axis and pivot and synchronization and lever* (Results 0)
Search 4: CPC=(C03B9/353) (Results 68)

1) Family number: 17799001 (US6684665B)

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Title: Device for driving two mold halves of a glass forming machine

Abstract: Device for driving two mold half holders of a glass molding machine. On a glass molding machine (5) holders (2; 3) are pivotally mounted about an axis (4). Each holder (2; 3) has mold tool halves (6; 7). A first joint bar (10) is articulated at a first articulation point (9) of each holder (2; 3). A second joint bar (12) is articulated at a second articulation point (11) of the first joint bar (10), which second joint bar is articulated for its part at a third articulation point (13) of the glass molding machine (5). A rod (14) is also articulated at the second articulation point (11) and is articulated with its other end at a crank pin (15) of a crank (16). Each of the two cranks (16) is coaxially connected to a toothed wheel (17; 18). The toothed wheels (17; 18) are in engagement with a worm (21) on diametrically opposite sides, which worm can be rotationally driven in a reciprocating manner by an electric servomotor (29) via a gear mechanism (30).

Classifications:

International (IPC 8-9): C03B9/16 C03B9/353 (Advanced/Invention); C03B9/00 (Core/Invention)

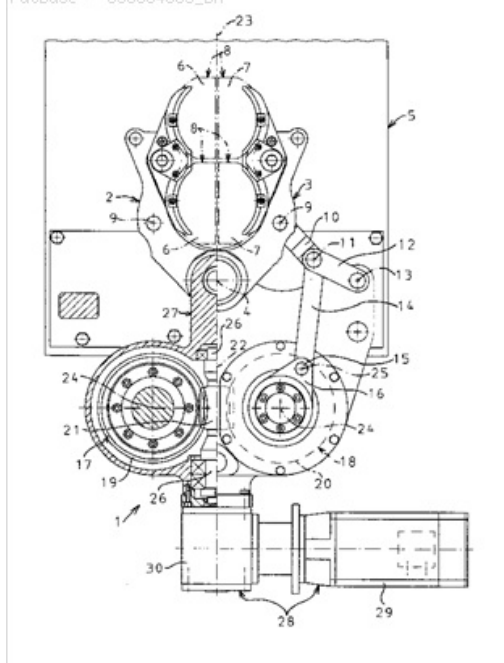
International (IPC 1-7): C03B11/16 C03B9/353

CPC: C03B9/165 C03B9/353 C03B9/3535 C03B9/3537

European: C03B9/16B C03B9/353 C03B9/353A1 C03B9/353B

US: 65/360 65/361

PatBase - US6684665_BA



Family:

Publication number	Publication date	Application number	Application date
AT258902 E	20040215	AT20000944035T	20000713
CA2350482 AA	20010514	CA20002350482	20000713
CA2350482 C	20050503	CA20002350482	20000713
DE29916216 U1	20000316	DE19992016216U	19990915
DE50005191 D1	20040311	DE20005005191	20000713
EP1137604 A1	20011004	EP20000944035	20000713
EP1137604 B1	20040204	EP20000944035	20000713
US6684665 BA	20040203	US20010807226	20010409
WO0119739 A1	20010322	WO2000EP06701	20000713

Priority:

DE19992016216U 19990915 DE20005005191 20000713 WO2000EP06701 20000713

Probable Assignee: HEYE HERMANN

Assignee(s): (std): BOEGERT HERMANN ; HARTMANN THOMAS ; HERMENING HEINZ ; HEYE HERMANN FA ; HEYE HERMANN ; HERMANN HEYE FA ; HEYE INT GMBH ; HEYE INTERNATIONAL GMBH

Assignee(s): HEYE INT ; GRANAT VERMOEGENSVERWALTUNG GMBH ; HEYE HERMANN LOHPLATZ ; HEYE HOLDING GMBH ; BOGERT HERMANN ; FA HERMANN HEYE ; FIRMA HERMANN HEYE

Inventor(s): (std): BOEGERT HERMANN ; HARTMANN THOMAS ; HERMENING HEINZ ; BOGERT HERMANN

Agent(s): ROBIC

Designated states: AT BE CA CH CY DE DK ES FI FR GB GR IE IT LI LU MC MX NL PT SE US

Title: Aligning fixture for mold opening and closing mechanism

Abstract: A mold opening and closing mechanism includes an aligning mechanism which has a horizontal mounting plate including a number of vertical openings for the number of molds, that is supported by a pair of spaced vertical uprights secured to the section frame top surface. A plurality of aligning cylinders are located in the vertical openings in the horizontal mounting plate and move parallel with the mold holder motion. Each cylinder includes surfaces configured to mate with the clamping surfaces of the mold holders. The axis of one of the aligning cylinders is held but not clamped at the theoretical centerline so it can move to the actual centerline when the mold holders are located at the advanced clamped closed position. A position transducer is mounted parallel with the mold holder motion to sense movement of the axis of one of the aligning cylinders and a computer receiving positional data from the transducer compares the theoretical centerline with the actual centerline determined from the data and defines a displacement offset for the displacement program to align the mold holders to the theoretical centerline.

Classifications:

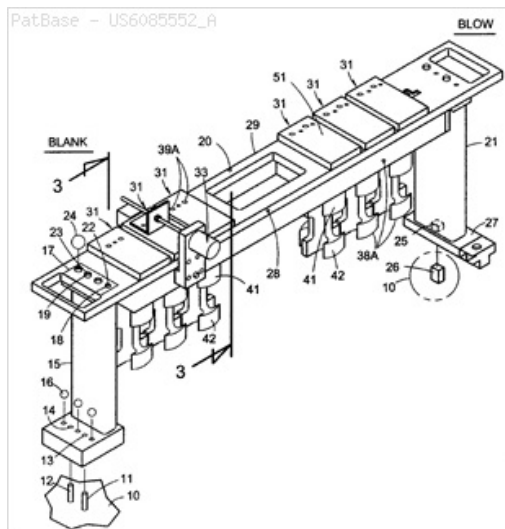
International (IPC 8-9): C03B9/16 C03B9/197 C03B9/30 C03B9/34 C03B9/353 C03B9/40 C03B9/44 (Advanced/Invention); C03B9/00 (Core/Invention)

International (IPC 1-7): C03B9/14 C03B9/16 C03B9/193 C03B9/195 C03B9/197 C03B9/30 C03B9/34 C03B9/353 C03B9/40 C03B9/41 C03B9/44

CPC: C03B9/165 C03B9/353 C03B9/3537 C03B9/40 C03B9/41

European: C03B9/16B C03B9/353 C03B9/353B C03B9/40 C03B9/41

US: 425/138 425/150 425/168 425/171 65/158 65/160 65/171 65/323 65/359



Family:

Publication number	Publication date	Application number	Application date
DE19960298 A1	20000810	DE19991060298	19991214
DE19960298 B4	20081106	DE19991060298	19991214
FR2788266 A1	20000713	FR20000000337	20000112
GB200000366 A0	20000301	GB20000000366	20000107
GB2345693 A1	20000719	GB20000000366	20000107
GB2345693 B2	20021016	GB20000000366	20000107
IT1316158 B1	20030403	IT2000MI00008	20000412
ITMI20000008 A0	20000105	IT2000MI00008	20000412
ITMI20000008 A1	20010705	IT2000MI00008	20000412
JP2000203850 A2	20000725	JP20000003207	20000112
JP4322385 B2	20090826	JP20000003207	20000112
US6085552 A	20000711	US19990229933	19990113

Priority:

US19990229933 19990113

Probable Assignee: EMHART GLASS SA

Assignee(s): (std): EMHART GLASS SA

Assignee(s): EMHART GLASS PO BOX SA ; EMHART GLASS S A ; EMHART GLASS S A CHAM

Inventor(s): (std): FASCIANO JOSEPH C ; HWANG DAVID K ; JOSEPH C FASSIANO ; VOISINE GARY R

Inventor(s): JOSEPH C FASCIANO ; GARY R VOISINE ; DAVID K HWANG

Title: BLOW MOLD AND METHOD FOR ADJUSTING A BLOW MOLD

Abstract: The invention relates to a blow mould (1) for a stretching machine or a glass blowing machine, comprising two mould halves (3, 4) which are pivotably connected by at least one connecting pin (2). The blow mould has a shutting device and locking device in the form of a closing clamp (7) which can be slid directly onto the mould halves (3, 4) from the side of the connecting pin (2). The mould halves (3, 4) are closed around the connecting pin (2) by the sliding, pressing contact of the closing clamp (7) and in the closed position, are pressed against each other without a gap, resulting in a mechanically simple, space-saving blow mould (1).

Classifications:

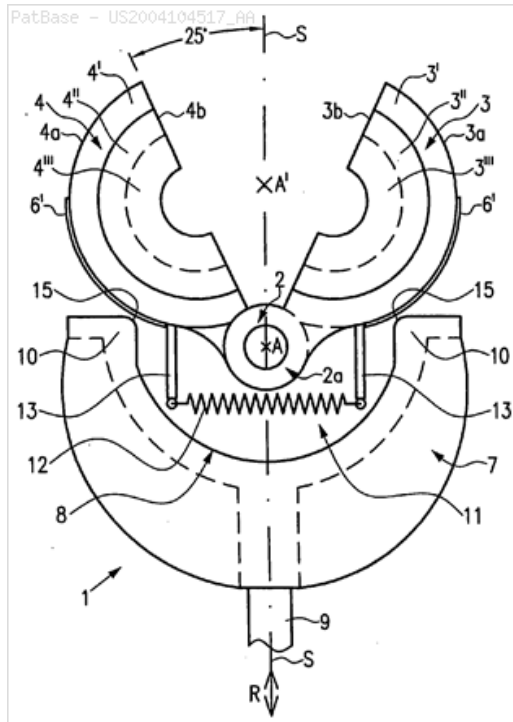
International (IPC 8-9): B29C49/56 C03B9/18 C03B9/347 C03B9/353 (Advanced/Invention); B29C49/56 C03B9/00 (Core/Invention)

International (IPC 1-7): B29C49/00 B29C49/48 B29C49/56 C03B9/18 C03B9/347 C03B9/353

CPC: B29C33/26 B29C49/56 C03B9/18 C03B9/353 C03B9/3532

European: B29C49/56 C03B9/18 C03B9/353 C03B9/353A L29C33/26

US: 264/523 264/523P 264/532 425/182 425/195 425/529 425/540 425/541 425/541S 65/360 65/361 65/68



Family:

Publication number	Publication date	Application number	Application date
AT313519 E	20060115	AT20010940537T	20010528
AU2001274076 AA	20011211	AU20010274076	20010528
AU200174076 A1	20011211	AU20010074076	20010528
AU200174076 A5	20011211	AU20010074076	20010528
DE10027111 A1	20011213	DE20001027111	20000531
DE10027111 B4	20040603	DE20001027111	20000531
DE50108468 D1	20060126	DE20015008468T	20010528
EP1289894 A1	20030312	EP20010940537	20010528
EP1289894 B1	20051221	EP20010940537	20010528
JP2003535011 T2	20031125	JP20010588147T	20010528
JP4050903 B2	20080220	JP20010588147T	20010528
US2004104517 AA	20040603	US20030297078	20030528
US6951629 BB	20051004	US20030297078	20030528
WO0192168 A1	20011206	WO2001EP06080	20010528

Priority:

DE20001027111 20000531 DE20015008468 20010528 WO2001EP06080 20010528

Probable Assignee: KRONSEDER HERMANN

Assignee(s): (std): KRONSEDER HERMANN

Assignee(s): KRONSEDER HERMANN DR ING E H ; KRONSEDER HERMANN DR ING EH ; KRONSEDER HERNANN E H ; KRONSEDER HERMANN E ; KRONSEDER HERMANN E H ; HERMANN E H KRONSEDER

Inventor(s): (std): KRONSEDER HERMANN

Inventor(s): HERMANN E H KRONSEDER ; KRONSEDER DR ING E H ; KRONSEDER HERMANN DR ING E H ; KRONSEDER HERNANN E H ; KRONSEDER HERMANN E H ; KRONSEDER HERMANN E ; KRONSEDER HERMANN DR ING EH

Agent(s): MARSHALL GERSTEIN AND BORUN LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

4) Family number: 22368038 (US2483660A)

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Title: ATTACHMENT FOR MOLD CARRIERS

Abstract: 1. An attachment for mold carriers having a carrier arm, said attachment comprising a connector between a mold and the carrier arm, a locking pin securing the connector to the mold, and having an annular groove, a ball carried by the connector for seating in the groove, spring means holding the ball in seated position, adjusting means for said spring means and means removably securing said connector to said carrier arm. V

Classifications:

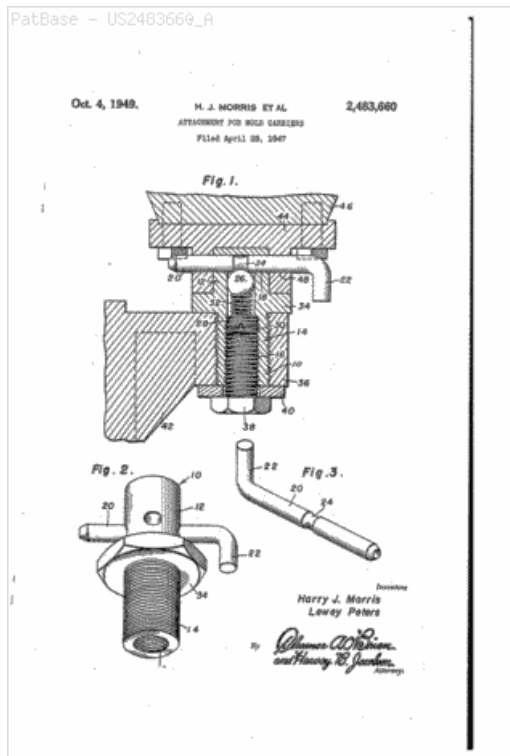
International (IPC 8-9): C03B9/353 (Advanced/Invention); C03B9/00 (Core/Invention)

International (IPC 1-7): C03B9/353

CPC: C03B9/353 Y10T279/17923 Y10T403/1666 Y10T403/7075 Y10T292/0885

European: C03B9/353

US: 279/97 292/73 403/19 403/376 65/171 65/361

**Family:**

Publication number	Publication date	Application number	Application date
US2483660 A	19491004	US19470744406	19470428

Priority:

US19470744406 19470428

Probable Assignee:

LEWEY PETERS

Assignee(s): (std):

LEWEY PETERS ; MORRIS HARRY J

Inventor(s): (std):

MORRIS HARRY J ; LEWEY PETERS

Inventor(s):

PETERS LEWEY

5) Family number: 2115049 (DE3123488C1)

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Title: Glass mould bottom reception device - with three-dimensional freedom of adjustment

Abstract: A reception device for at least one mould bottom of a form tool for a machine, to process molten glass, locates the mould bottom on a guide ring directly or through an intermediate piece. It can be moved by this ring parallel to its centre line. The ring can be displaced transversely relative to a coupling component. The latter can be coupled to the mould bottom carrier of the machine. This facilitates the assembly and exchange of mould bottoms. The mould bottom can be aligned in three-dimensions to other centring parts, e.g. halves of a finished mould.

Classifications:**International (IPC 8-9):** C03B9/16 C03B9/34 C03B9/353

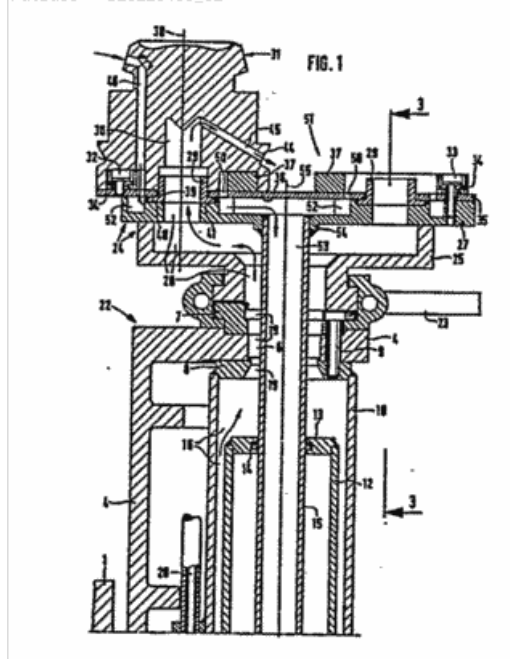
C03B9/38 (Advanced/Invention);

C03B9/00 (Core/Invention)

International (IPC 1-7): B29C1/00 C03B11/12 C03B9/38**CPC:** C03B9/165 C03B9/344 C03B9/353 C03B9/3866 C03B9/3875**European:** C03B9/16B C03B9/34C C03B9/353 C03B9/38

C03B9/38H C03B9/38J

PatBase - DE3123488_C1

**Family:**

Publication number	Publication date	Application number	Application date
DE3123488 C1	19821104	DE19813123488	19810613

Priority:

DE19813123488 19810613

Probable Assignee: HEYE HERMANN FA

Assignee(s): (std): HEYE HERMANN FA

Assignee(s): FA HERMANN HEYE 3063 OBERNKIRCHEN DE

Inventor(s): (std): HERMENING HELMUT ; SCHAAR LOTHAR DIPL ING ; SCHNEIDER WILHELM

Inventor(s): HERMENING HELMUT 4953 PETERSHAGEN DE ; SCHAAR LOTHAR DIPL ING 3061 HEUERSSEN DE ; SCHNEIDER WILHELM 3262 AUETAL DE

6) Family number: 1871049 (US4606746A)

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Title: METHOD OF MONITORING THE POSITION OF TWO MOVABLE SIDE PORTIONS OF A MOULD OF A GLASSWARE FORMING MACHINE

Abstract: The positions of movable side portions (12,14) of a mould are monitored to determine whether the side portions reach their mould-closed condition. Ultrasonic radiation is transmitted from a first source (22) so that it is reflected by a first of the mould portions (12) to a first detector. Ultrasonic radiation is also transmitted from a second source (24) so that it is transmitted from the second mould portion (14) to a second detector. A signal is produced which is indicative of the time taken by the radiation to travel from the first source to the first detector plus the time taken by the radiation to travel from the second source to the second detector and the signal is compared with a standard representing the expected time for the radiation travel when the side portions are in their closed condition.

Classifications:

International (IPC 8-9): C03B9/353 C03B9/41

G05B19/048 (Advanced/Invention);

C03B9/00 G05B19/048 (Core/Invention)

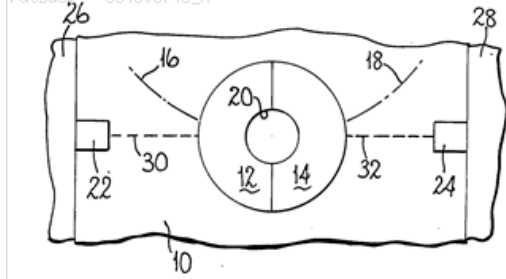
International (IPC 1-7): C03B9/34 C03B9/40

CPC: Y10S65/13 G05B19/048 C03B9/353 C03B9/41

European: C03B9/353 C03B9/41 G05B19/048

US: 65/158 65/163 65/29 65/29.18 65/DIG.13

PatBase - US4606746_A



Family:

Publication number	Publication date	Application number	Application date
GB2164933 A1	19860403	GB19840024613	19840928
GB8424613 A0	19841107	GB19840024613	19840928
US4606746 A	19860819	US19850779190	19850923

Priority:

GB19840024613 19840928

Probable Assignee: EMHART IND

Assignee(s): (std): EMHART IND

Assignee(s): EMHART IND INC ; EMHART INDUSTRIES INC

Inventor(s): (std): KELLER RENE

Inventor(s): RENE KELLER

7) Family number: 34090061 (US2007104820A)

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Title: MOLD FOR AN I.S. MACHINE

Abstract: A mold is disclosed which has a vertical front face having a glass object surface defined therein and a stepped vertical rear surface. The upper portion of the rear surface projects outwardly from the lower portion of the rear surface. The lower rear surface includes the top surface of two vertically spaced pairs of "T"s.

Classifications:

International (IPC 8-9): B28B17/00 B29C33/22 B41B11/62

C03B11/14 C03B19/02 C03B8/00 C03B9/34 C03B9/347

C03B9/353 (Advanced/Invention);

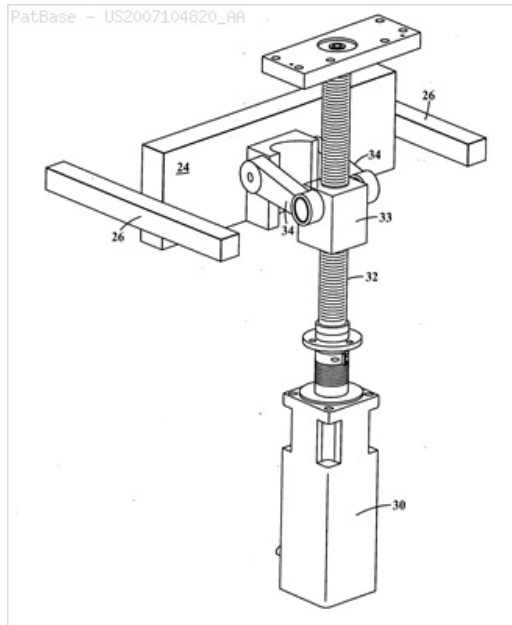
C03B19/00 C03B8/00 C03B9/00 (Core/Invention)

International (IPC 1-7): B29C

CPC: C03B9/3537 C03B9/347 C03B9/353

European: C03B9/347 C03B9/353 C03B9/353B

US: 249/102 249/139 425/195 425/450.1 425/451 425/451.9 425/453 65/227 65/243 65/305 65/323 65/357 65/359 65/361

**Family:**

Publication number	Publication date	Application number	Application date
AU2006230776 AA	20070524	AU20060230776	20061020
AU2006230776 BB	20111124	AU20060230776	20061020
DE102006049214 A1	20070516	DE200610049214	20061018
FR2893322 A1	20070518	FR20060054645	20061031
FR2893322 B1	20110610	FR20060054645	20061031
GB200621797 A0	20061213	GB20060021797	20061101
GB2432155 A1	20070516	GB20060021797	20061101
GB2432155 B2	20110413	GB20060021797	20061101
IN02297DE2006 A	20070831	IN2006DE02297	20061019
ITMI20062121 A1	20070511	IT2006MI02121	20061107
JP2007131521 A2	20070531	JP20060290790	20061026
JP4718413 B2	20110706	JP20060290790	20061026
RU2006139607 A	20080520	RU20060139607	20061108
RU2412119 C2	20110220	RU20060139607	20061108
US2007104820 AA	20070510	US20050270920	20051110
US7347067 BB	20080325	US20050270920	20051110

Priority:

US20050270920 20051010 US20050270920 20051110

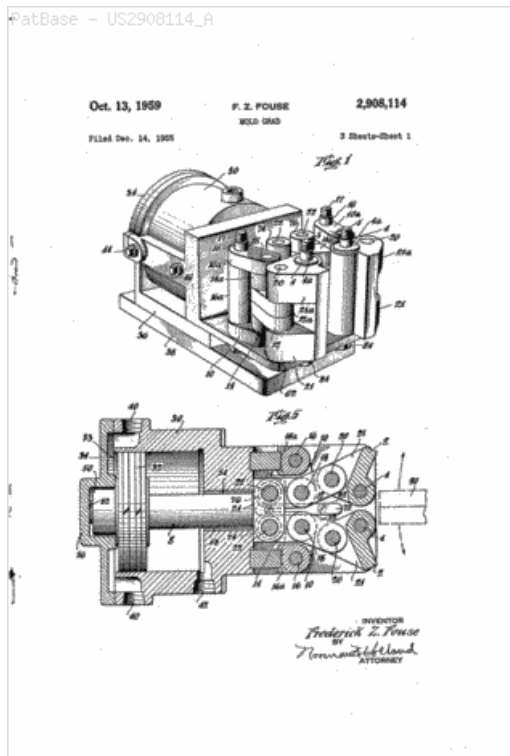
Probable Assignee: EMHART GLASS SA**Assignee(s):** (std): EHMKHART GLASS S A ; EMHART GLASS SA ; FENTON F A**Assignee(s):** EHMKHART GLASS SA ; EMHART GLASS S A**Inventor(s):** (std): FENTON FRANK ALAN ; ALAN FENTON F ; FENTON ALAN F ; FENTON F A ; FENTON F ALAN**Inventor(s):** ALAN F FENTON ; F ALAN FENTON ; FENTON F ; FRANK ALAN FENTON**Agent(s):** GRIFFITH HACK; BREVALEX; MASUI CHUJI; ONO SHINJIRO; SHAMOTO ICHIO; KOBAYASHI YASUSHI; TOMITA HIROYUKI; CHIBA AKIO; SPENCER T SMITH EMHART GLASS RESEARCH INC; SMITH SPENCER T; SPENCER T**8) Family number: 22263064 (US2908114A)**

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Title: MOLD GRAB

Abstract: (Claim 1) 1. In a mold grab for gripping a split mold, the combination of a frame, a pair of gripping jaws mounted on said frame for pivotal movement on stationary pivots, actuating means for moving said jaws from an open position disengaged from the mold portions to a closed gripping position engaging the split mold portions, each of said jaws having one end of a first toggle arm pivotally mounted thereon, the other end of each of said first toggle arms being mounted on a floating pivot, each of said floating pivots having one end of a second toggle arm mounted thereon, the other end of each of said second toggle arms being mounted on a fixed pivot, and means connecting said actuating means to each of said floating pivots.

Classifications:**International (IPC 8-9):** C03B9/353 (Advanced/Invention); C03B9/00 (Core/Invention)**International (IPC 1-7):** C03B9/353**CPC:** C03B9/353 Y10T24/44068 Y10T24/44333**European:** C03B9/353**US:** 24/463 24/494 269/228 269/238 269/34 269/35 65/357 81/301 81/367

**Family:**

Publication number	Publication date	Application number	Application date
US2908114 A	19591013	US19550553049	19551214

Priority:

US19550553049 19551214

Probable Assignee:

ANCHOR HOCKING GLASS CORP

Assignee(s): (std):

ANCHOR HOCKING GLASS CORP

Inventor(s): (std):

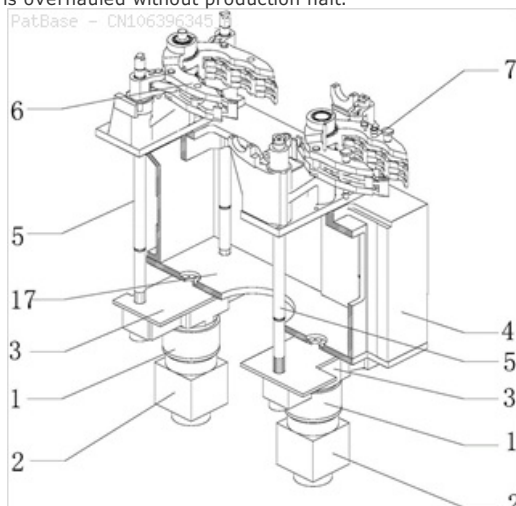
FOUSE FREDERICK Z

9) Family number: 64927107 (CN106396345A)

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Title: PARISON MOLD AND FORMING MOLD SWITCH DRIVING MECHANISM FOR BOTTLE MAKING MACHINE

Abstract: The invention provides a parison mold and forming mold switch driving mechanism for a bottle making machine. A parison mold switch driving mechanism and a forming mold switch driving mechanism each comprise a speed reducer, a motor and a hinged box; the speed reducers, the motors and the hinged boxes are all arranged at the bottom part of the outer side of a framework of the bottle making machine; each speed reducer is in drive connection with the corresponding motor; a power take-off shaft of each speed reducer is connected with a pair of drive shafts through the corresponding hinged box; a pair of drive shafts of the parison mold switch driving mechanism is in drive connection with a parison mold fixture mechanism; a pair of drive shafts of the forming mold switch driving mechanism is in drive connection with a forming mold fixture mechanism; each pair of drive shafts penetrates through the framework of the bottle making machine; and the parison mold switch fixture mechanism and the forming mold switch fixture mechanism are both arranged at the top part of the outer side of the framework of the bottle making machine. The parison mold and forming mold switch driving mechanism provided by the invention is convenient to maintain and replace, and is overhauled without production halt.

Classifications:**International (IPC 8-9):** C03B9/34 (Advanced/Invention)**CPC:** C03B9/353**Family:**

Publication number	Publication date	Application number	Application date
CN106396345 A	20170215	CN201611135569	20161212

Priority:

CN201611135569 20161212

Probable Assignee: WEIFANG SANJIANG GLASS MACHINERY CO LTD**Assignee(s):** (std): WEIFANG SANJIANG GLASS MACHINERY CO LTD**Assignee(s):** WEIFANG SANJIANG GLASS MACHINERY CO**Inventor(s):** (std): GONG SHIPENG ; HUANG GUOXIONG**10) Family number: 54631107** (ITTO20120171A)

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Title: METODO E MECCANISMO DI APERTURA E CHIUSURA STAMPI PER MACCHINA FORMATRICE DEL VETRO CAVO A SERRAGGIO ELETTROMAGNETICO METHOD AND MECHANISM OF OPENING AND CLOSING THE GLASS MOULDS FOR FORMING MACHINE ELECTROMAGNETIC LOCKING CABLE (Machine translation)**Classifications:****CPC:** C03B9/353 C03B9/41**Family:**

Publication number	Publication date	Application number	Application date
■ ITTO20120171 A1	20130825	IT2012TO00171	20120224

Priority:

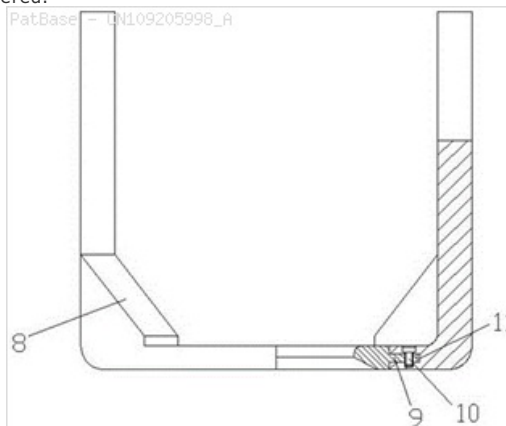
IT2012TO00171 20120224

Probable Assignee: VIADA BRUNO**Assignee(s):** (std): VIADA BRUNO**Inventor(s):** (std): VIADA BRUNO**11) Family number: 72855125** (CN109205998A)

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Title: RAPID REPLACEMENT TYPE BOTTLE CLAMP ASSEMBLY FOR GLASS PRODUCT MOLD

Abstract: The invention discloses a rapid replacement type bottle clamp assembly for a glass product mold. The rapid replacement type bottle clamp assembly comprises inserts, a left bottle clamp and a right bottle clamp; the left bottle clamp and the right bottle clamp are distributed in mirror symmetry; each of the left bottle clamp and the right bottle clamp comprises a back panel and a base plate; the back panels extend vertically upwards from the tail ends of the base plates to form L-shaped bent plate structures; the front ends of the base plates are provided with inward concave arc surfaces; outward convex arc surfaces corresponding to the inward concave arc surfaces are arranged at the tail ends of the inserts; the inward concave arc surfaces are concavely provided with positioning grooves; positioning blocks extending into the positioning grooves are arranged on the outward convex arc surfaces; and fastening screws penetrating through the positioning blocks for fixing are arranged on the base plates. The rapid replacement type bottle clamp assembly has the advantages that by means of the mode, the inserts which are separated from the base plates are particularly adopted, the inserts are produced independently and then are assembled, positioning is carried out through cooperation of the positioning grooves and the positioning blocks, assembly is convenient, the inserts can be rapidly replaced when the inserts are damaged, and therefore the production cost and the use cost are lowered.

Classifications:**International (IPC 8-9):** C03B9/353 (Advanced/Invention)**CPC:** C03B9/353**Family:**

Publication number	Publication date	Application number	Application date
■ CN109205998 A	20190115	CN201811453095	20181130

Priority:

CN201811453095 20181130

Probable Assignee: SUZHOU KABUL MOULD TECH CO LTD**Assignee(s):** (std): SUZHOU KABUL MOULD TECH CO LTD**Assignee(s):** SUZHOU KABUL MOULD TECHNOLOGY CO ; MOLD TECHNOLOGY CO LTD SUZHOU KAPOOR**Inventor(s):** (std): LI GUOGANG**12) Family number: 52835131** (DE202012103547U1)

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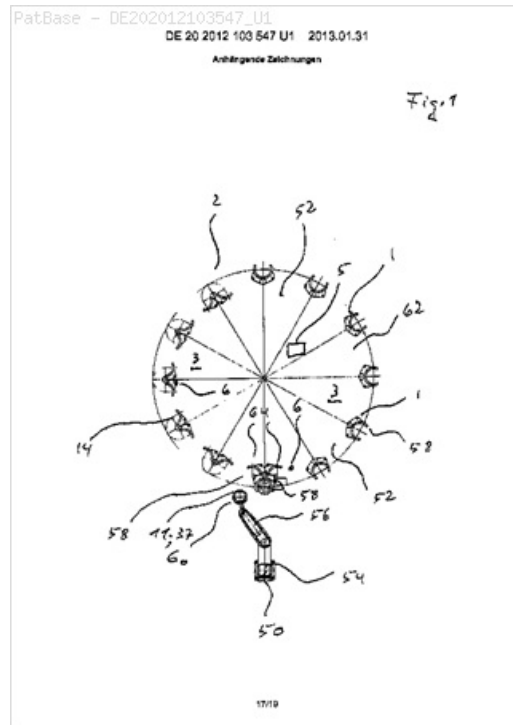
Title: VORRICHTUNG ZUR HERSTELLUNG UND WEITERBEARBEITUNG EINES GLASKOERPERS MIT WENIGSTENS EINEM GLASKOERPER DEVICE FOR PRODUCING AND CONTINUE WORKING WITH AT LEAST ONE OF A GLASKOERPERS

Abstract: Source: DE202012103547U1 [DE] Vorrichtung zur Herstellung und/oder Weiterbearbeitung eines Glaskoerpers mit wenigstens einer zu seiner Formung und/oder seiner Weiterbearbeitung dienenden Einrichtung (1), dadurch gekennzeichnet, dass die wenigstens eine Einrichtung (1) wenigstens einen Roboter (50) umfasst.

Machine translation: Apparatus for producing and / or further processing a Glaskoerpers with at least one serving for its shaping and / or its further processing means (1), characterized in that the at least one device (1) comprises at least one robot (50).

Classifications:

International (IPC 8-9): B25J11/00 (Advanced/Invention)
CPC: C03B9/18 C03B9/195 C03B9/22 C03B9/295 C03B9/353
 C03B9/40 C03B9/447 C03B11/02 C03B35/04 B25J9/0084



Family:

Publication number	Publication date	Application number	Application date
DE202012103547 U1	20130131	DE201220103547U	20120810

Priority:

DE201220103547U 20120810

Probable Assignee: WALTEC MASCH GMBH

Assignee(s): (std): WALTEC MASCH GMBH ; WALTEC MASCHINEN GMBH

13) Family number: 71243207 (US2018265389A)

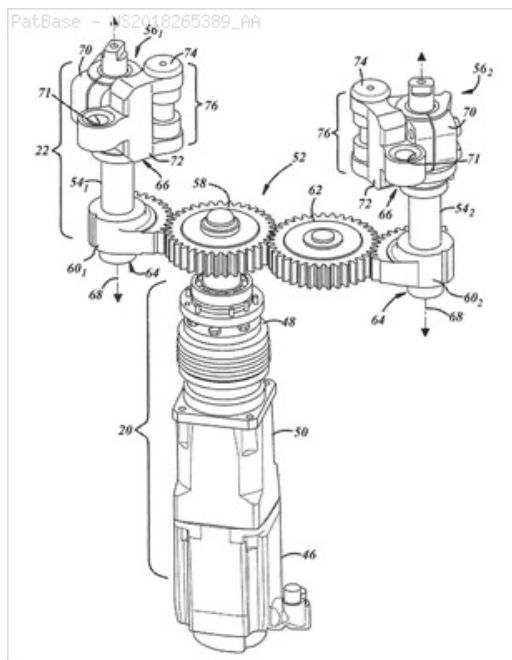
© PatBase

Title: OPERATING MECHANISM FOR A GLASSWARE FORMING MACHINE

Abstract: A mold operating mechanism to open and close molds of a glassware forming machine. The mechanism includes a drivetrain assembly including a frame, a gearset carried by the frame and configured to be driven by a powertrain assembly, at least one operating shaft carried by the frame and driven by the gearset, and at least one linkage operatively coupled to the operating shaft and configured to be operatively coupled to a mold carrier carrying at least a portion of one or more molds. The mechanism includes further a fluid cylinder disposed proximate the linkage and including at least one piston rod operatively coupled to the linkage, wherein as the linkage rotates, the piston rod is pulled outward from the cylinder, and the cylinder is dragged outwardly, and whereafter the cylinder is pressurized with fluid to push the piston rod further outward to apply clamping pressure to the linkage.

Classifications:

International (IPC 8-9): C03B9/353 C03B9/40
 C03B9/41 (Advanced/Invention)
CPC: C03B9/403 C03B9/41 C03B9/353 C03B9/3537
US: 1/1 65/29.15



Family:

Publication number	Publication date	Application number	Application date
US2018265389 AA	20180920	US20170463337	20170320
WO18175112 A1	20180927	WO2018US21435	20180308

Priority:

US20170463337 20170320

Probable Assignee: OWENS BROCKWAY GLASS CONTAINER INC

Assignee(s): (std): OWENS BROCKWAY GLASS CONTAINER ; OWENS BROCKWAY GLASS CONTAINER INC

Inventor(s): (std): FLYNN ROBIN L ; FLYNN ROBIN

Agent(s): SMITH SUSAN L

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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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

14) Family number: 68800240 (DE102016010790A1)

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Title: FORMENSCHLISS- UND INVERTIERMECHANISMUS FUER EINE GLASFORMMASCHINE Mold CLOSING AND INVERT MECHANISM FOR A GLASS FORMING MACHINE (Machine translation)

Abstract: Source: DE102016010790A1 [DE] Ein Formenschliess- und Invertiermechanismus ist durch eine motorisch betätigbare Einrichtung zum Verriegeln der Bewegung der auf Schlitten (15) aufgelagerten Formhalter (2) in wenigstens einer Position zwischen einer oeffnungs- und einer Schliessstellung der Form und durch eine weitere motorisch betätigbare Einrichtung zum Verriegeln der Drehbewegung der die Muendungsformwerkzeughalter (3) tragenden Invertierwelle (7) zwischen einer der Vorform und einer der Fertigform zugekehrten Stellung gekennzeichnet. Ueber die Sichtfenster (28, 29) einer Anzeigevorrichtung (10) ist der Ver- und Entriegelungszustand der Einrichtungen visuell wahrnehmbar dargestellt. Die Verriegelung ermoeoglicht eine gute Zugaenglichkeit von beispielsweise zwischen den Formhaelften befindlichen Bauteilen im Rahmen von Wartungsarbeiten sowie einen einfachen Austausch von Muendungsformwerkzeugen. **Machine translation:** A mold closing and invert mechanism is through a motor-actuable device to lock the movement of the carriage (15) overlaid form holder (2) in at least one position between an opening and a closing of the mold, and through another motor-actuable device to lock the rotational movement of the mouth molding tool holder (3). Invert shaft (7) between one of the preform and a completion form-facing position. Via the viewing window (28, 29) of a display device (10), the locking and unlocking state of the devices depicted in a manner visually perceivable. The locking allows for good accessibility of, for example, between the mold halves of the components in the course of maintenance work, as well as a simple exchange of mouth mold tools.

Classifications:

International (IPC 8-9): C03B9/40 (Advanced/Invention)

CPC: C03B9/1932 C03B9/353 C03B9/3537 C03B9/40

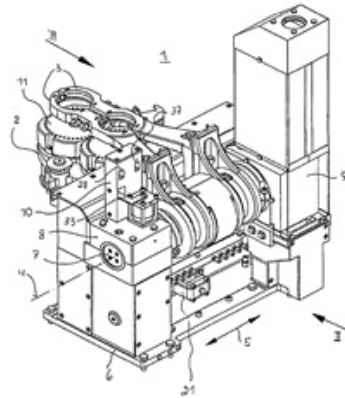


Fig. 1

2105

Family:

Publication number	Publication date	Application number	Application date
DE102016010790 A1	20180308	DE201610010790	20160902

Priority:

DE201610010790 20160902

Probable Assignee: HEYE INT GMBH

Assignee(s): (std): HEYE INT GMBH

Inventor(s): (std): FELGENHAUER BENEDIKT ; HARDEKOPF DANIEL

15) Family number: 38648245 (CH7535A)

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Title: MACHINE A FABRIQUER LA BOUTEILLE ET AUTRES OBJETS EN VERRE SOUFFLE, SYSTEME J. VERNAY MACHINE
MANUFACTURING BOTTLE AND OTHER OBJECTS IN GLASS BLOWING SYSTEM J. VERNAY (Machine translation)

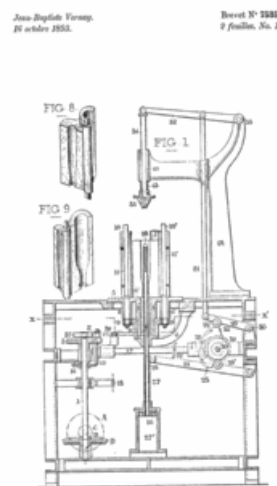
Classifications:

International (IPC 8-9): C03B9/14 C03B9/353 (Advanced/Invention);
C03B9/00 (Core/Invention)

CPC: C03B9/14 C03B9/353

European: C03B9/14 C03B9/353

PatBase - CH7535_A



Family:

Publication number	Publication date	Application number	Application date
CH7535 A	18940430		00000000

Priority:

18931016

Probable Assignee: VERNAY JEAN BAPTISTE
Assignee(s): (std): VERNAY JEAN BAPTISTE
Inventor(s): (std): VERNAY JEAN BAPTISTE
Inventor(s): JEAN BAPTISTE VERNAY

16) Family number: 55758257 (DE102012107385B4)

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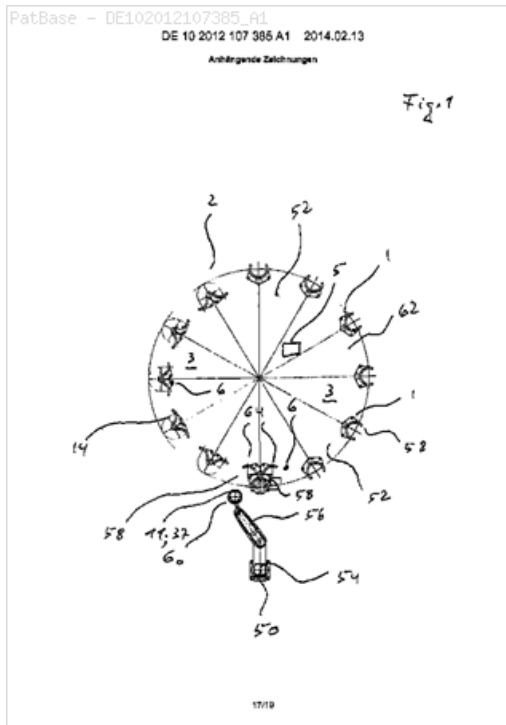
Title: Vorrichtung zur Herstellung und Weiterbearbeitung eines Glaskörpers mit wenigstens einem Glaskörper

Abstract: Source: DE102012107385B4 [DE] Vorrichtung zur Herstellung und/oder Weiterbearbeitung eines Glaskörpers, umfassend eine auf einem sich kontinuierlich drehenden Karussell (62) angeordnete Press-Blas-Einrichtung. Die Vorrichtung umfasst wenigstens eine zur Formung und/oder Weiterbearbeitung des Glaskörpers dienende Einrichtung (1), die wenigstens einen Roboter (50) umfasst. Der Roboter (50) ist in dreidimensionaler Richtung um das Produkt und/oder das Werkzeug bewegbar.

Classifications:

International (IPC 8-9): B25J11/00 C03B7/01 (Advanced/Invention)

CPC: B25J11/00 C03B7/14 C03B9/195 C03B9/1955 C03B9/353 C03B9/447 C03B11/02



Family:

Publication number	Publication date	Application number	Application date
DE102012107385 A1	20140213	DE201210107385	20120810
DE102012107385 B4	20160908	DE201210107385	20120810

Priority:

DE201210107385 20120810

Probable Assignee: WALTEC MASCH GMBH
Assignee(s): (std): WALTEC MASCH GMBH
Inventor(s): (std): ZIRFAS ULRICH ; WAGNER RAINER ; BASSING WERNER

17) Family number: 2072285 (US4466821A)

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Title: Baffle moving and alignment means for the four gob glass forming machine

Abstract: A glassware forming machine is shown which has a baffle support arm. The baffle support arm provides for four individual baffle holders which are grouped in adjacent pairs. The pairs of holders are interconnected by an equalizer arm and are biased into position by a leaf spring above and by a coil spring below. The equalizer arms are connected intermediate their lengths to a third larger equalizer bar which is pivoted for a rocking motion. The apparatus further comprises means for lifting and moving the baffle support arm and a latch means for changing the baffle holders.

Classifications:

International (IPC 8-9): C03B9/16 C03B9/34 C03B9/353

C03B9/36 (Advanced/Invention);

C03B9/00 (Core/Invention)

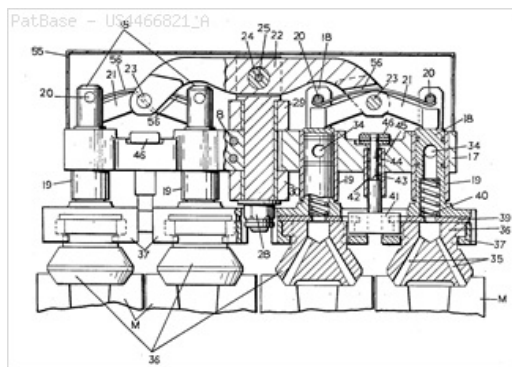
International (IPC 1-7): B29C49/02 C03B9/13 C03B9/14 C03B9/197

C03B9/30 C03B9/34 C03B9/353 C03B9/36 C03B9/40

CPC: C03B9/165 C03B9/353 C03B9/369

European: C03B9/16B C03B9/353 C03B9/36 C03B9/36H

US: 65/260 65/261 65/307 65/323



Family:

Publication number	Publication date	Application number	Application date
AU198320186 A1	19840628	AU19830020186	19831014
AU543635 B2	19850426	AU19830020186	19831014
CA1212233 A1	19861007	CA19830439271	19831019
DE3345998 A1	19840628	DE19833345998	19831220
DE3345998 C2	19870305	DE19833345998	19831220
ES528263 A0	19841116	ES19830528263	19831221
ES8501352 A1	19841116	ES19830528263	19831221
FR2538369 A1	19840629	FR19830018594	19831122
FR2538369 B1	19860829	FR19830018594	19831122
GB2132602 A1	19840711	GB19830027751	19831017
GB2132602 B2	19870528	GB19830027751	19831017
GB8327751 A0	19831116	GB19830027751	19831017
IT1168238 A	19870520	IT19830049323	19831111
IT8349323 A0	19831111	IT19830049323	19831111
JP1383607 C3	19870609	JP19830243052	19831222
JP59131527 A2	19840728	JP19830243052	19831222
JP61043289 B4	19860926	JP19830243052	19831222
MX157668 A	19881208	MX19830199722	19831213
US4466821 A	19840821	US19820452229	19821222
ZA8307666 A	19840627	ZA19830007666	19831014

Priority:

US19820452229 19821222 CA19830439271 19831019

Probable Assignee: OWENS ILLINOIS INC A CORP OF

Assignee(s): (std): OWENS ILLINOIS INC

Assignee(s): OWENS ILLINOIS INC TOLEDO OHIO US ; OWENS ILLINOIS INC A CORP OF ; IRWIN GEORGE W ; MUMFORD EUSTACE H ; OWENS ILLINOIS GLASS CONTAINER INC

Inventor(s): (std): HAROLD MUMFORD EUSTACE ; IRWIN GEORGE WENDALL ; IRWIN GEORGE W ; MUMFORD EUSTACE H ; MUMFORD EUSTACE HAROLD ; JIYOOJI UENDOORU AAUIN ; WENDALL IRWIN GEORGE ; MUMFORD EUSTACE HAROLD ; YUUSUTASU HARORUDO MANFUODOO

Inventor(s): MUMFORD EUSTACE HAROLD OTTAWA LAKE MICH US ; JOOJI UENDOORU AAUIN ; MUMFORD EUSTACE HAROLD OTTAWA LAKE MICH ; EUSTACE HAROLD MUMFORD ; IRWIN GEORGE WENDALL HOLLAND OHIO US ; GEORGE WENDALL IRWIN ; GEORGE WENDALL IRWIN ET EUSTACE HAROLD MUMFORD

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

18) Family number: 22488313 (US3005289A)

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Title: MOLD OPENING ADJUSTMENT MECHANISM

Abstract: (Claim 1) In a combination including a horizontal shaft mounted on a frame for rotation about its axis, power mechanism for rotating the shaft, mold arms connected to the shaft for rotation therewith, a partible mold comprising mold sections carried by said arms, a fluid-operated cylinder mounted on the shaft and operatively connected to one of said arms for moving it lengthwise thereof and operable to carry said arms to a maximum mold opening position, means for supplying fluid under pressure to said cylinder, a coil spring placed under compression by the movement of said cylinder under fluid pressure, a pinion mounted for rotation about a fixed axis, racks meshing with said pinion, and means providing operating connections between the racks and mold arms for operating both mold arms toward and away from each other, the improvement comprising a stop member pivotally mounted on the frame overlying the shaft and rotatable, at will, between raised and lowered positions, said member, when in its lowered position, engaging one of said arms and limiting their opening movement thereby defining an intermediate mold opening position for release of molded glass therefrom during operation of the partible mold for forming glass articles.

Classifications:

International (IPC 8-9): C03B9/353 (Advanced/Invention);

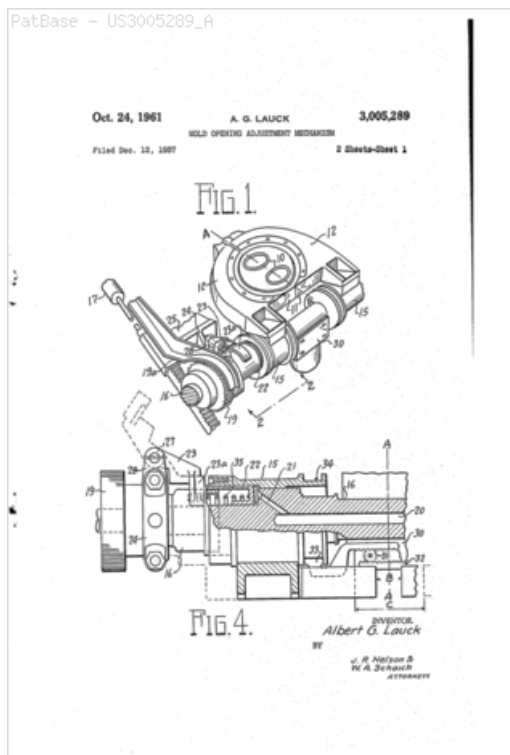
C03B9/00 (Core/Invention)

International (IPC 1-7): C03B9/353

CPC: C03B9/353

European: C03B9/353

US: 65/172 65/360

**Family:**

Publication number	Publication date	Application number	Application date
US3005289 A	19611024	US19570702289	19571212

Priority:

US19570702289 19571212

Probable Assignee:

OWENS ILLINOIS GLASS CO

Assignee(s): (std):

OWENS ILLINOIS GLASS CO

Assignee(s):

OWENS ILLINOIS GLASS COMPANY

Inventor(s): (std):

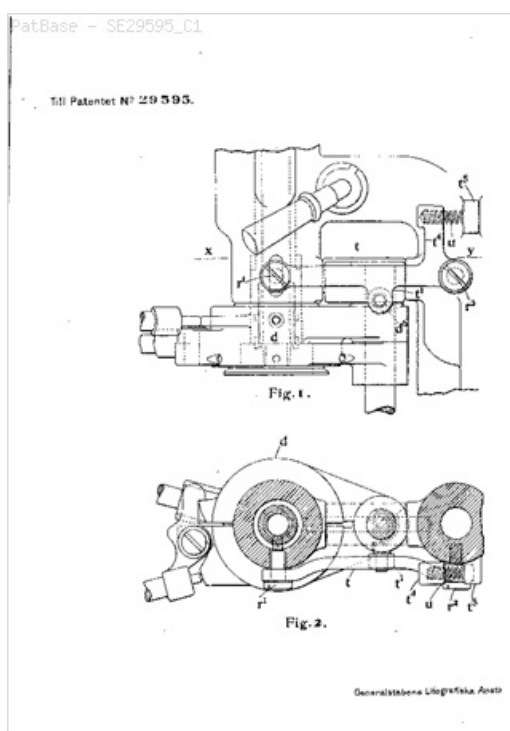
LAUCK ALBERT G

19) Family number: 44474314 (SE29595 C1)

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Classifications:**International (IPC 1-7):** C03B9/16**CPC:** C03B9/16 C03B9/353**European:** C03B9/16 C03B9/353

PatBase - SE29595_C1

**Family:**

Publication number	Publication date	Application number	Application date
SE29595 C1	00000000		00000000

Title: GLASSWARE MOLD PYROMETRY

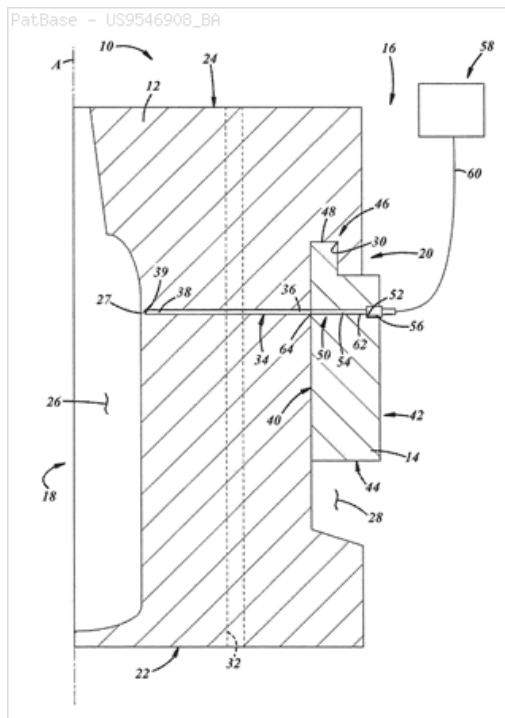
Abstract: An apparatus to sense temperature in a glassware forming machine. A mold body includes an exterior surface, a mold cavity having an interior mold surface, and a blind hole having a closed end including a closed end surface adjacent to and spaced outwardly from the interior mold surface, wherein the blind hole extends outwardly from the closed end surface toward the exterior surface. The mold body is removably carried on a mold hanger, and a light collector is carried by the mold hanger to collect infrared light emitted within the blind hole.

Classifications:

International (IPC 8-9): C03B C03B9/34 C03B9/347 C03B9/353 C03B9/38 C03B9/41 G01J5/02 (Advanced/Invention); C03B9/353 C03B9/38 (Advanced/Non-invention)

International (IPC 1-7): C03B9/347 C03B9/353 C03B9/41

CPC: C03B9/3532 C03B9/3875 C03B9/41 G01J5/02 C03B9/353 C03B9/347



Family:

Publication number	Publication date	Application number	Application date
AU2015364599 AA	20170615	AU20150364599	20151217
AU2015364599 BB	20181108	AU20150364599	20151217
BR112017011185 A2	20180102	BR20171111185	20151217
CA2970785 AA	20170613	CA20152970785	20151217
CA2970785 C	20180626	CA20152970785	20151217
CL2017001553 A1	20171229	CL20170001553	20170615
CN107001095 A	20170801	CN201580069001	20151217
CN107001095 B	20181109	CN201580069001	20151217
CO20170006086 A2	20170831	CO20170006086	20170620
EP3233741 A1	20171025	EP20150841027	20151217
ID201803388 A	20180406	ID2017P0003649	20151217
MX2017007456 A1	20170905	MX20170007456	20151217
PE08062017 A1	20170704	PE20170000977	20151217
PE20170806 A1	20170704	PE20170000977	20151217
US9546908 BA	20170117	US20140573847	20141217
WO16100632 A1	20160623	WO2015US66309	20151217
ZA201704086 A	20180926	ZA20170004086	20151217

Priority:

US20140573847 20141217 WO2015US66309 20151217

Probable Assignee: OWENS BROCKWAY GLASS CONTAINER INC

Assignee(s): (std): OWENS BROCKWAY GLASS CONTAINER ; OWENS BROCKWAY GLASS CONTAINER INC

Assignee(s): PEENO JOSHUA D ; NAFZIGER GREGORY W

Inventor(s): (std): NAFZIGER GREGORY W ; PEENO JOSHUA D ; GREGORY W NAFZIGER ; JOSHUA D PEENO

Inventor(s): JOSHUA PEENO D ; GREGORY NAFZIGER W

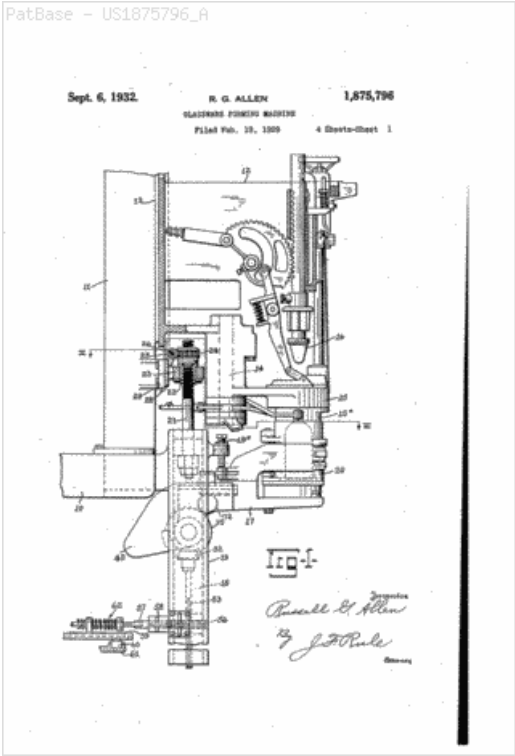
Agent(s): SHELSTON IP PTY LTD; GOWLING WLG CANADA LLP; JOHANSSON AND LANGLOIS; JUAN PABLO CADENA SARMIENTO; BLUMBACH ZINNGREBE; IRYT WIDJOJO; SMITH SUSAN L

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: GLASSWARE FORMING MACHINE

Abstract: 1. In a glass forming machine, the combination of a mold carrier mounted to swing up and down about a horizontal axis, a partible mold on said carrier, means for swinging said carrier about said axis for raising and lowering the mold, mechanism for opening and closing the mold including a gear train, said train comprising a gear rotatable about said horizontal axis, and means cooperating with said carrier swinging means for causing said gear to rotate about said axis with the mold carrier and at the same angular velocity during said raising and lowering of the mold, whereby the swinging of the mold carrier about said axis will not cause opening or closing movements of the mold.

Classifications:
International (IPC 8-9): C03B9/353 (Advanced/Invention);
C03B9/00 (Core/Invention)
International (IPC 1-7): C03B9/353
CPC: C03B9/353 C03B9/3532
European: C03B9/353 C03B9/353A
US: 65/360



Family:

Publication number	Publication date	Application number	Application date
US1875796 A	19320906	US19290340686	19290218

Priority:

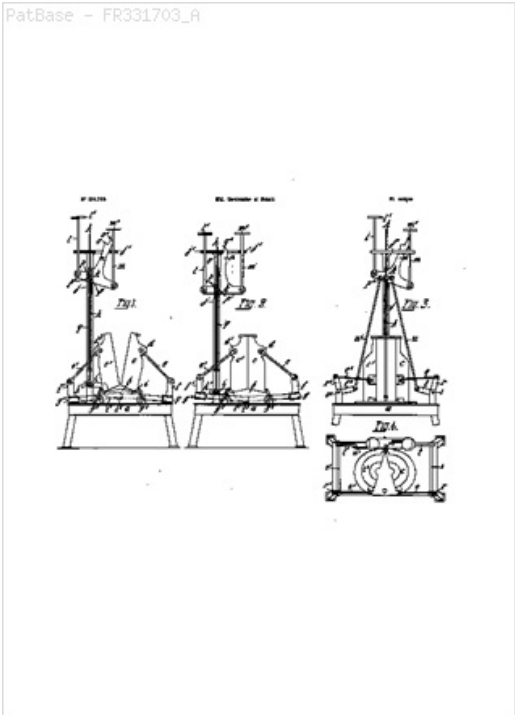
US19290340686 19290218

Probable Assignee: OWENS ILLINOIS GLASS CO
Assignee(s): (std): OWENS ILLINOIS GLASS CO
Assignee(s): OWENS ILLINOIS GLASS COMPANY
Inventor(s): (std): ALLEN RUSSELL G

22) Family number: 24859342 (FR331703A) © PatBase

Title: Systeme de fermeture de surete pour moules de verrerie System for locking glass molds (Machine translation)

Classifications:
International (IPC 1-7): C03B9/02
CPC: C03B9/353
European: C03B9/353



Family:

Publication number	Publication date	Application number	Application date
FR331703 A	19030928		00000000

Probable Assignee: JEAN SCHOTT
Assignee(s): (std): EUGENE CORDONNIER ; JEAN SCHOTT
Inventor(s): (std): CORDONNIER EUGENE ; SCHOTT JEAN

23) Family number: 14075348 (JP2001031433A)

Title: CARTRIDGE TYPE FRICTION-REDUCING LOCK RING

Abstract: PROBLEM TO BE SOLVED: To enable long-time use of a lock ring by decreasing reduction of the lock ring which is a necessary part for glass bottle-making machine. SOLUTION: A hard material replaces a part which is friction place as a cartridge in order to reduce friction of a lock ring which is a part for bottle-making machines. Specifically, a hard sheet is put in a place in which wear of the lock ring is severe and used. It is preferable to prevent lowering of accuracy by heat deformation, etc., without carrying out heating, etc., in this time.

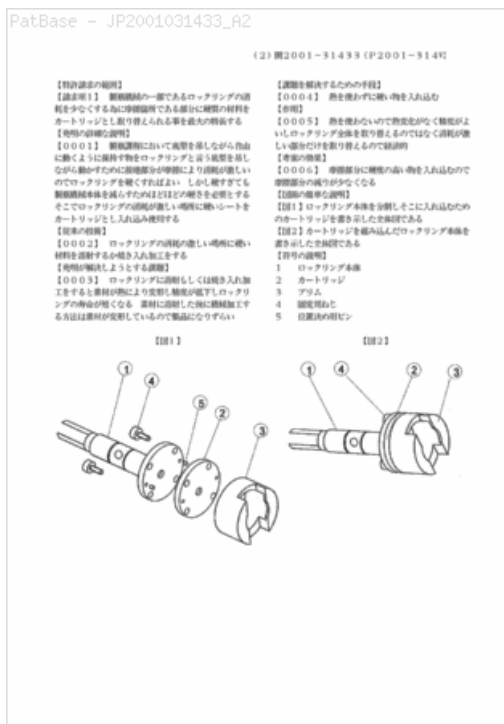
Classifications:

International (IPC 8-9): C03B9/353 (Advanced/Invention); C03B9/00 (Core/Invention)

International (IPC 1-7): C 03B9/353

CPC: C 03B9/353

European: C03B9/353



Family:

Publication number	Publication date	Application number	Application date
JP2001031433 A2	20010206	JP19990237367	19990722

Priority:
JP19990237367 19990722

Probable Assignee: ISHIHARA TOSHIHIKO

Assignee(s): (std): ISHIHARA TOSHIHIKO

Inventor(s): (std): ISHIHARA TOSHIHIKO

24) Family number: 24687351 (KR20010055889A)

Title: MANUFACTURING MACHINE FOR GLASS VESSEL

Abstract: PURPOSE: Provided is a manufacturing machine for glass vessel, which forms a negative screw thread at the upper side of a mold and a positive screw thread at a pipe so that it minimizes the production process of glass vessel. CONSTITUTION: The manufacturing machine for glass vessel comprises the parts of: a negative screw mountain(18) which is formed at the upper and lower side of an upper plate(12) in a mold(10); and a positive screw thread which is placed at the end of a pipe to flow glass materials(24) into the mold forming the upper part of glass vessel by a press. And the lower plate is released from the mold and the positive screw thread in the pipe is combined with the negative screw thread of the upper plate.

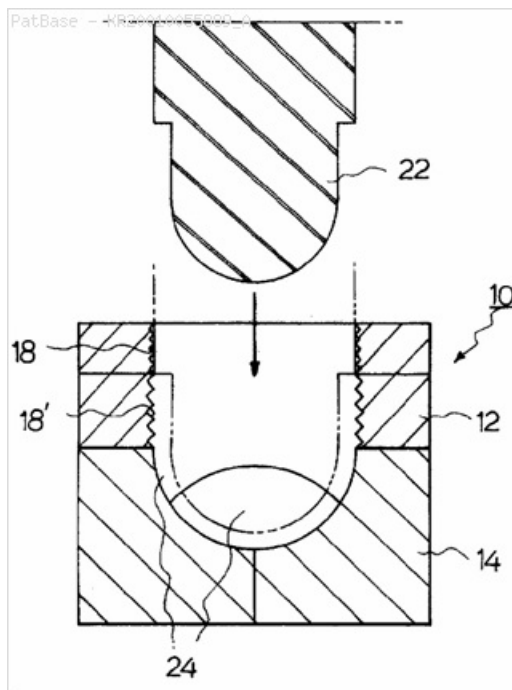
Classifications:

International (IPC 8-9): C03B9/34 (Advanced/Invention);

C03B9/34 (Advanced/Non-invention);

C03B9/00 (Core/Invention)

International (IPC 1-7): C03B9/34
CPC: C03B9/347 C03B9/353 Y02P40/51 C03B11/06 Y02P40/57



Family:

Publication number	Publication date	Application number	Application date
■ KR20010055889 A	20010704	KR19990057214	19991213

Priority:

KR19990057214 19991213

Probable Assignee:

KANG JUNG CHUN

Assignee(s): (std):

KANG JUNG CHUN

Inventor(s): (std):

KANG JUNG CHUN

25) Family number: 24859356 (FR387835A)

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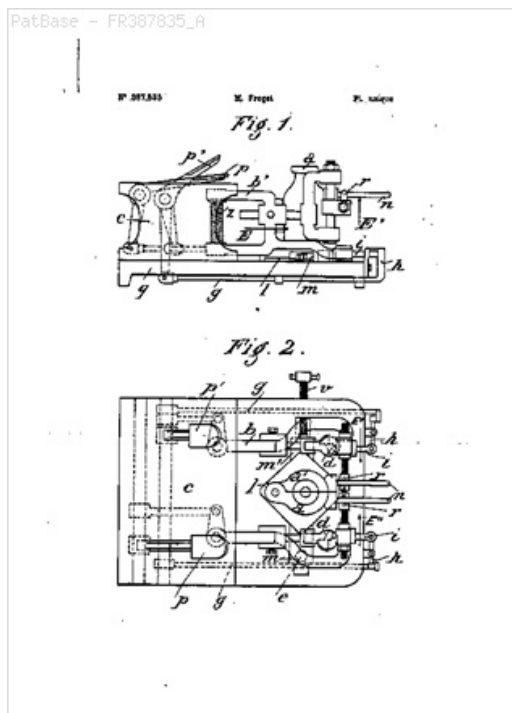
Title: Ferme-moule pour moules de flaconnage Farm-mold bottle mold (Machine translation)

Classifications:

International (IPC 1-7): C03B9/02

CPC: C03B9/353

European: C03B9/353



Family:

Publication number	Publication date	Application number	Application date
■ FR387835 A	19080723		00000000

Probable Assignee:

ANDRE FROCET

Assignee(s): (std):

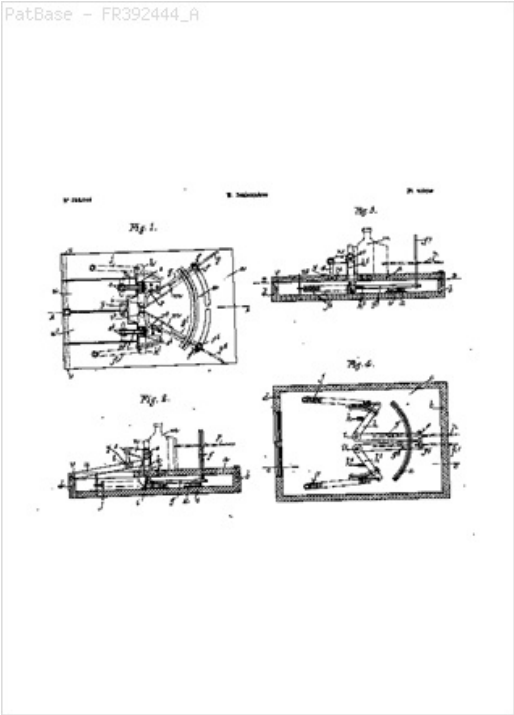
ANDRE FROCET

Inventor(s): (std):

FROCET ANDRE

Title: Appareil pour fermer et ouvrir automatiquement les moules de verrerie Unit to close and open automatically glassmaking molds (Machine translation)

Classifications:
International (IPC 1-7): C03B9/02
CPC: C03B9/353
European: C03B9/353



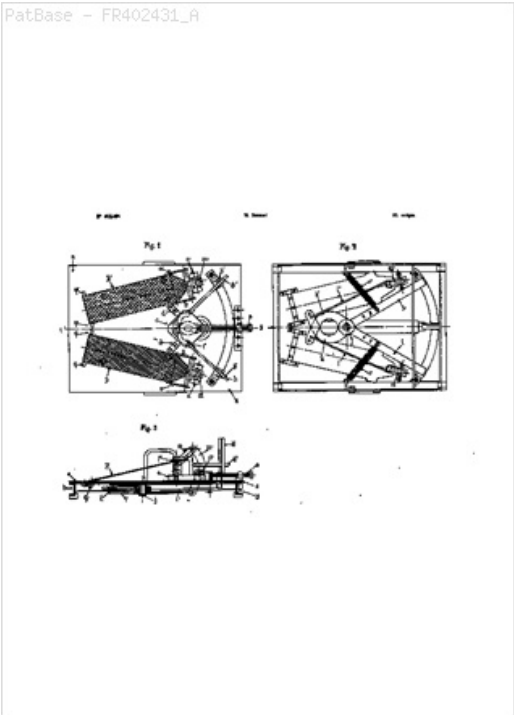
Family:

Publication number	Publication date	Application number	Application date
FR392444 A	19081126		00000000

Probable Assignee: ANDRE DESJONQUERES
Assignee(s): (std): ANDRE DESJONQUERES
Inventor(s): (std): DESJONQUERES ANDRE

Title: Perfectionnement dans les ferme-moules de verrier Improvement in farm-glass molds (Machine translation)

Classifications:
International (IPC 1-7): C03B9/02
CPC: C03B9/353
European: C03B9/353



Family:

Publication number	Publication date	Application number	Application date
FR402431 A	19091007		00000000

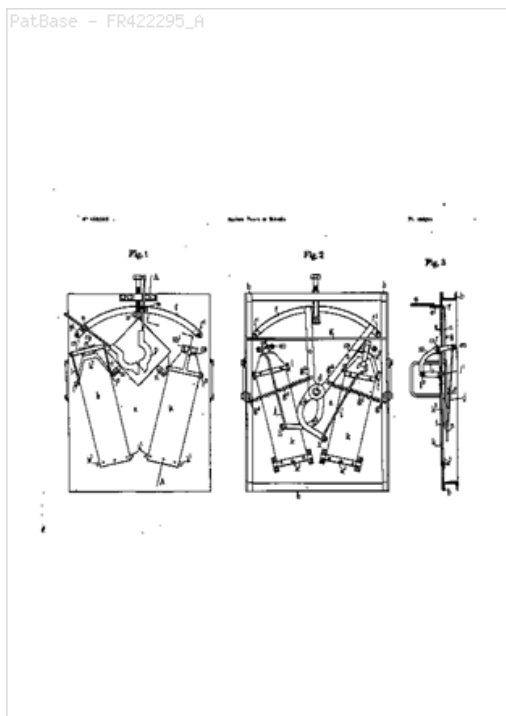
Probable Assignee: CHARLES MARCEL ELPHEGE DUMONT
Assignee(s): (std): CHARLES MARCEL ELPHEGE DUMONT
Inventor(s): (std): DUMONT CHARLES MARCEL ELPHEGE

28) Family number: 24859364 (FR422295A)

© PatBase

Title: Appareil de fermeture et d'ouverture automatique des moules de verrerie Device for closing and automatic opening glass molds (Machine translation)

Classifications:
International (IPC 1-7): C03B9/02
CPC: C03B9/353
European: C03B9/353



Family:

Publication number	Publication date	Application number	Application date
FR422295 A	19110317		00000000

Probable Assignee: YVART ET MERELLE SOC
Assignee(s): (std): YVART ET MERELLE SOC
Assignee(s): SOCIETE YVART ET MERELLE

29) Family number: 57311365 (ITMI20130289A)

© PatBase

Title: APPARECCHIATURA PER LA FORMATURA DI UN ARTICOLO DI VETRO, QUALE IN PARTICOLARE UN BICCHIERE, ESIBENTE UNA RIGATURA INTERNA SPORGENTE, E CORRISPONDENTE PROCEDIMENTO PER LA FORMATURA DI ARTICOLI DI VETRO RIGATI INTERNAMENTE. APPARATUS FOR FORMING AN ARTICLE OF GLASS, WHICH IN PARTICULAR A GLASS, exhibiting PROJECTING AN INTERNAL LINES, AND CORRESPONDING METHOD FOR FORMING OF ARTICLES OF GLASS NAUTICAL INTERNALLY. (Machine translation)

Classifications:
CPC: C03B9/195 C03B9/197 C03B9/32 C03B9/33 C03B9/353

Family:

Publication number	Publication date	Application number	Application date
ITMI20130289 A1	20140829	IT2013MI00289	20130228

Priority:
IT2013MI00289 20130228

Probable Assignee: VETRERIA DI BORGONOVO SPA
Assignee(s): (std): VETRERIA DI BORGONOVO SPA
Inventor(s): (std): PICCIONI PIER FRANCESCO

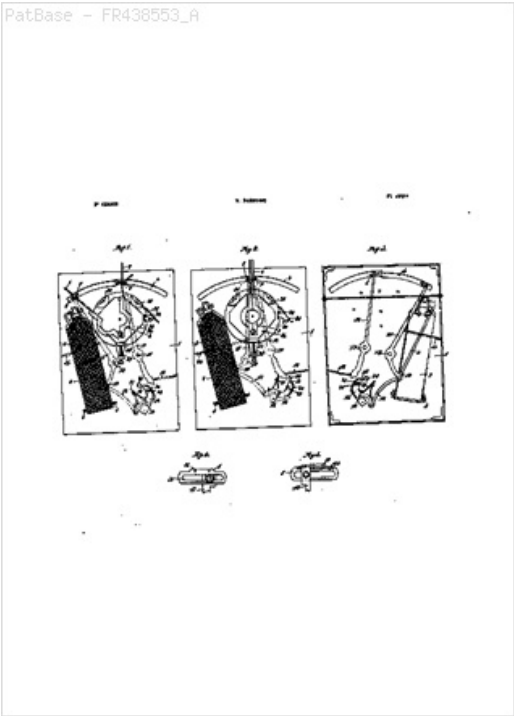
30) Family number: 24859372 (FR438553A)

© PatBase

Title: Nouveau ferme-moule pour flaconnerie, gobeletterie, etc. New firm to mold flaconnerie, gobeletterie, etc.. (Machine translation)

Classifications:

International (IPC 1-7): C03B9/02
CPC: C03B9/353
European: C03B9/353



Family:

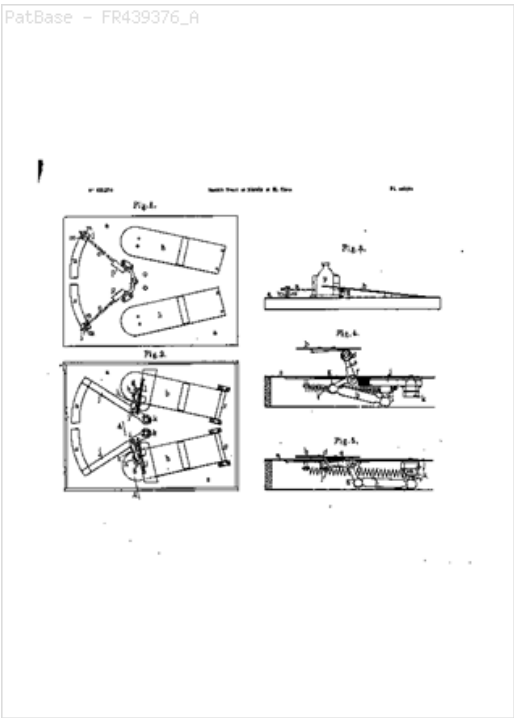
Publication number	Publication date	Application number	Application date
FR438553 A	19120521		00000000

Probable Assignee: LOUIS DUCHAUSOY
Assignee(s): (std): LOUIS DUCHAUSOY
Inventor(s): (std): DUCHAUSOY LOUIS

31) Family number: 24859373 (FR439376A) © PatBase

Title: Ferme moule pour la verrerie Mold for glass firm (Machine translation)

Classifications:
International (IPC 1-7): C03B9/02
CPC: C03B9/353
European: C03B9/353



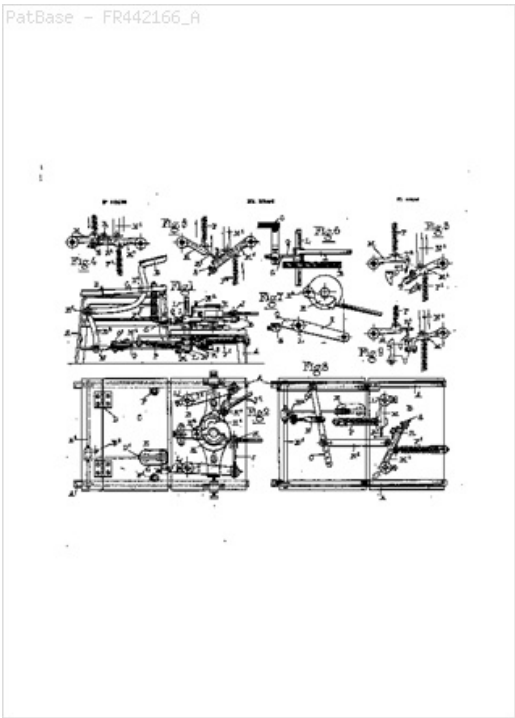
Family:

Publication number	Publication date	Application number	Application date
FR439376 A	19120612		00000000

Probable Assignee: THEODULE GERIN
Assignee(s): (std): THEODULE GERIN ; YVART ET MERELLE SOC
Assignee(s): SOCIETE YVART ET MERELLE
Inventor(s): (std): GERIN THEODULE

Title: Ferme-moule de verrerie Farm-mold glass (Machine translation)

Classifications:
International (IPC 1-7): C03B9/02
CPC: C03B9/353
European: C03B9/353



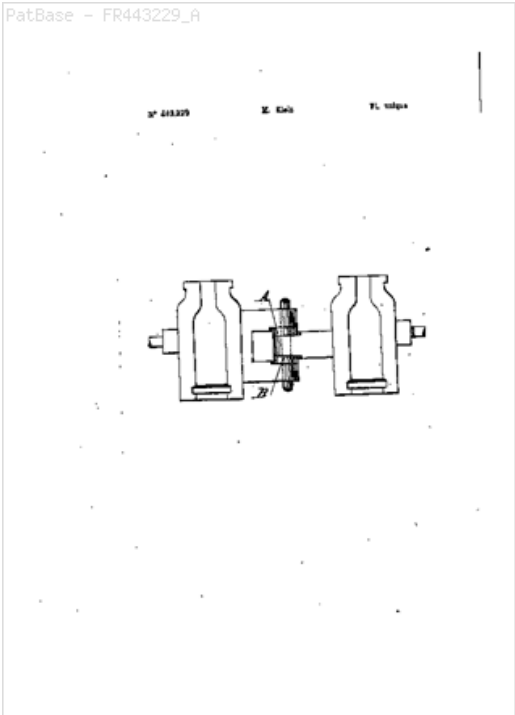
Family:

Publication number	Publication date	Application number	Application date
FR442166 A	19120826		00000000

Probable Assignee: GASTON MENARD
Assignee(s): (std): GASTON MENARD ; PIERRE MENARD
Inventor(s): (std): MENARD GASTON ; MENARD PIERRE

Title: Systeme de charnieres pour moules de verreries a une ou plusieurs charnieres soit pour bouteilles, flacons, objets quelconques en verre soufflé ou presse System hinges for glass molds has one or more hinges or for bottles, glass blowing any object or press (Machine translation)

Classifications:
International (IPC 1-7): C03B9/02
CPC: C03B9/353
European: C03B9/353



Family:

Publication number	Publication date	Application number	Application date
FR443229 A	19120919		00000000

Probable Assignee: DENIS KLEIN

Assignee(s): (std): DENIS KLEIN

Inventor(s): (std): KLEIN DENIS

34) Family number: 10318399 (WO9739989A1)

© PatBase

Title: MOULD COOLING DEVICE IN THE GLASS MAKING INDUSTRY, RELEVANT MOULD MACHINING PROCESS AND FITNESS PROCESS OF SAID COOLING DEVICE IN DIFFERENT MOULDS FOR CHANGING THE PRODUCTION FROM A GLASS CONTAINER TO ANOTHER

Abstract: A mould cooling device is based on air which runs through an annular recess (17) and axial internal conducts (19, 21) with an upper and a lower portion so that the cooling process can start from the middle axial development of the mould; whenever a different kind of bottle is to be manufactured, height adjusting means (34, 38) of air compressed chamber (9, 10) allow this chamber to co-operate with a plurality of different moulds (1).

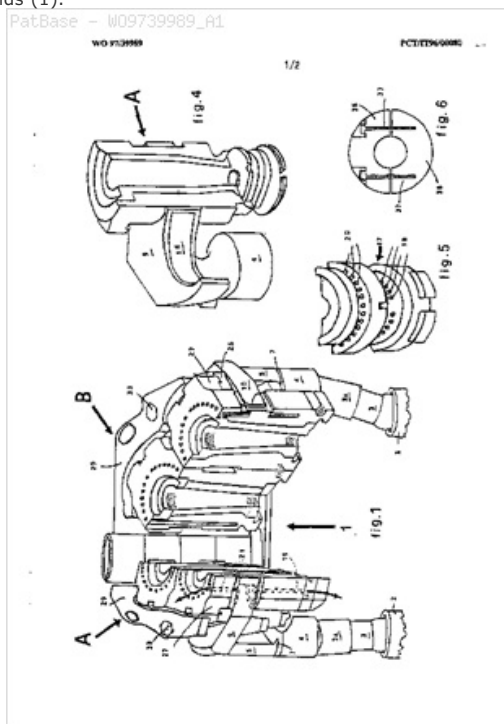
Classifications:

International (IPC 8-9): B23P15/24 B29C33/04 B29C33/38 B29C35/16 C03B9/347 C03B9/353 C03B9/38 (Advanced/Invention); B29C33/38 B29C35/16 (Advanced/Non-invention); B23P15/24 B29C33/04 B29C33/38 C03B9/00 (Core/Invention); B29C35/00 (Core/Non-invention)

International (IPC 1-7): B23P15/24 B29C33/04 B29C33/38 C03B9/347 C03B9/353 C03B9/38

CPC: B29C33/046 B29C2035/1658 C03B9/347 C03B9/353 C03B9/3532 C03B9/3875

European: B29C33/04C C03B9/347 C03B9/353 C03B9/353A C03B9/38 C03B9/38J L29C35/16C



Family:

Publication number	Publication date	Application number	Application date
AT222570 E	20020915	AT19960912202T	19960422
AU199655128 A1	19971112	AU19960055128	19960422
DE69623136 D1	20020926	DE19966023136	19960422
DE69623136 T2	20030508	DE19966023136T	19960422
EP0895509 A1	19990210	EP19960912202	19960422
EP0895509 B1	20020821	EP19960912202	19960422
ES2181881 T3	20030301	ES19960912202T	19960422
PT895509 T	20021231	PT19960912202T	19960422
WO9739989 A1	19971030	WO1996IT00080	19960422

Priority:

EP19960912202 19960422 WO1996IT00080 19960422

Probable Assignee: AZIENDE VETRARIE IND RICCIARDI

Assignee(s): (std): AVIR FINANZIARIA S P A ; AZIENDE VETRARIE IND RICCIARDI ; MORETTIN AMBROGIO

Assignee(s): AVIR FINANZIARIA S P A ; AZIENDE VETRARIE INDUSTRIALI RICCIARDI AVIR S P A ; AZIENDE VETRARIE INDUSTRIALI RICCIARDI AVIR S P A CORSICO ; AZIENDE VETRARIE INDUSTRIALI RICCIARDI AVIR SPA

Inventor(s): (std): MORETTIN AMBROGIO

Inventor(s): AMBROGIO MORETTIN

Designated states: AT AU BE CA CH CZ DE DK ES FI FR GB GR IE IT LI LU MC NL NZ PT SE SI US

35) Family number: 40865403 (US2007277557A)

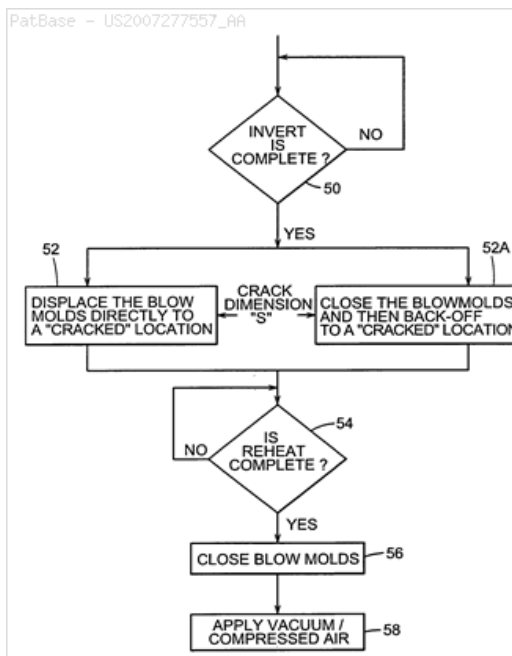
© PatBase

Title: I. S. MACHINE

Abstract: An I. S. Machine is provided wherein the blow molds are closed to a slightly cracked location whereby applied cooling air can not leak into and pressurize the blow mold thereby damaging the parison during rehear. When rehear is completed, the blow molds are fully closed and the parison is transformed into a bottle by applying compressed air and/or vacuum.

Classifications:

International (IPC 8-9): C03B11/00 C03B9/00 C03B9/13 C03B9/16 C03B9/20 C03B9/30 C03B9/347 C03B9/353 C03B9/38 C03B9/40 C03B9/41 C03B9/44 C03B9/447 (Advanced/Invention); C03B11/00 C03B9/00 (Core/Invention)
International (IPC 1-7): A61F6/00
CPC: C03B9/353 C03B9/41
European: C03B9/353 C03B9/41
US: 65/110 65/110P 65/264 65/264S 65/267 65/267S 65/357 65/357P 65/359 65/359S 65/63



Family:

Publication number	Publication date	Application number	Application date
AU2007201945 AA	20071220	AU20070201945	20070501
AU2007201945 BB	20120517	AU20070201945	20070501
DE602007008319 D1	20100923	DE200760008319T	20070515
EP1862436 A1	20071205	EP20070108258	20070515
EP1862436 B1	20100811	EP20070108258	20070515
IN00970DE2007 A	20071214	IN2007DE00970	20070504
IN265056 B	20150206	IN2007DE00970	20070504
JP2007320848 A2	20071213	JP20070146382	20070601
JP4701207 B2	20110615	JP20070146382	20070601
RU2007120538 A	20081210	RU20070120538	20070601
RU2434816 C2	20111127	RU20070120538	20070601
US2007277557 AA	20071206	US20060445894	20060602
US2011232331 AA	20110929	US20110154002	20110606
US7975510 BB	20110712	US20060445894	20060602
US8099980 BB	20120124	US20110154002	20110606

Priority:

US20060445894 20060602 US20110154002 20110606

Probable Assignee: EMHART GLASS SA

Assignee(s): (std): EHMKHART GLASS S A ; EMHART GLASS SA ; SIMON JONATHAN S

Assignee(s): EHMKHART GLASS SA ; EMHART GLASS S A

Inventor(s): (std): SAJMON DZHONATAN S ; SIMON JONATHAN S

Inventor(s): JONATHAN S SIMON

Agent(s): GRIFFITH HACK; WARREN ANTHONY ROBERT; ITO TAKAMI; ONO SHINJIRO; SHAMOTO ICHIO; KOBAYASHI YASUSHI; TOMITA HIROYUKI; CHIBA AKIO; SPENCER T SMITH EMHART GLASS RESEARCH INC; REINHART BOERNER VAN DEUREN SC

Designated states: AL BA CZ DE FR GB HR IT MK YU

36) Family number: 46848406 (EP2230217B1)

© PatBase

Title: PREFORMING STATION OF AN IS GLASS MACHINE STATION D'EBAUCHE D'UNE MACHINE IS </

Abstract: The preform molding station comprises a station box (5) that is provided with cooling air by a cooling device of the glass machine, two holding arms (2) that are movable on the preform station parallelly guided to each other, two or three preform molding halves that are associated to the holding arms and are movable by sequentially moving the holding arms simultaneously in its closing position and/or in its opening position, where each holding arm is connected by a movable telescope tube arrangement (21, 22). The preform molding station comprises a station box (5) that is provided with cooling air by a cooling device of the glass machine, two holding arms (2) that are movable on the preform station parallelly guided to each other, two or three preform molding halves that are associated to the holding arms and are movable by sequentially moving the holding arms simultaneously in its closing position and/or in its opening position, where each holding arm is connected by a movable telescope tube arrangement (21, 22) that is linked at the holding arms on one side and at station box on another side, to the station box of the preform molding station and to the cooling device so that each holding arm is provided during the parallel guiding sequential movement also during the parallel guiding movement and in welding position and in opening position with cooling air. Two or three telescope tubes corresponding to preform molding halves held by the holding arm belong to telescope tube arrangement, where the telescope tube is associated to the preform halves. The telescope tube of the telescope tube arrangement is associated to two or three air regulating valves (7) that are separately regulatable by a control grid (13, 14, 15). The air regulating valve is formed as proportional valve. The telescope tube arrangement is connected to the station box over a station box insert separated by the station box. The telescope tube arrangement is connected to the preform holding arms over the preform mold holding arm insert separated by the preform holding arms. The preform mold holding arm insert comprises two or three cooling air passages corresponding to preform halves. The station box insert comprises cooling air passages corresponding to the telescope tubes. The preform holding arm insert is connected to the telescope tube on one side and two preform halves are connected to the holding arms on another side. Control grids associated to the air control valve is formed as piston/cylinder arrangement chargeable with compressed

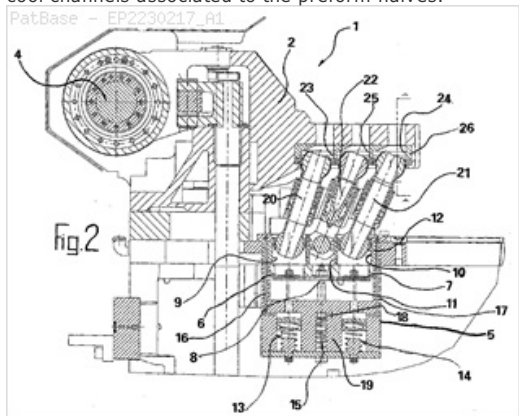
air. In the preform holding arms, a cooling air channel is formed, which is connected to the cooling passage at preform holding arm side and branches off from the mouth form of the mouth cool channels associated to the preform halves.

Classifications:

International (IPC 8-9): C03B9/353 C03B9/38 (Advanced/Invention); C03B9/00 (Core/Invention)

CPC: C03B9/353 C03B9/3537 C03B9/3816 C03B9/3883 C03B9/3891

European: C03B9/353 C03B9/353B C03B9/38D C03B9/38J2 C03B9/38V



Family:

Publication number	Publication date	Application number	Application date
DE102009014168 A1	20100923	DE200910014168	20090320
DE102009014168 B4	20120112	DE200910014168	20090320
DE502010007583 D1	20140918	DE201050007583T	20100122
EP2230217 A1	20100922	EP20100000655	20100122
EP2230217 B1	20140806	EP20100000655	20100122
ES2514591 T3	20141028	ES20100000655T	20100122
HR20141078 T1	20150130	HR20140001078	20141105
PT2230217 T	20141103	PT20100000655T	20100122

Priority:

DE200910014168 20090320 EP20100000655 20100122

Probable Assignee: GPS GLASPROD SERV GMBH

Assignee(s): (std): GPS GLASPROD SERV GMBH

Assignee(s): GPS GLASPRODUKTIONS SERVICE GMBH ; ROLF THEMANN AND PARTNER SA

Inventor(s): (std): DIEKAEMPER LARS

Inventor(s): LARS DIEKAEMPER

Agent(s): PATENTANWAELTE SPALTHOFF U LELGEMANN; LELGEMANN KARL HEINZ; LEHMANN MARIA ISABEL

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 MK MT NL NO PL PT RO RS SE SI SK SM TR

37) Family number: 922410 (US3529950A)

© PatBase

Title: ADJUSTABLE-BLANK CARRIER FOR GLASSWARE FORMING MACHINES

Abstract: ABSTRACT OF THE DISCLOSURE

A blank or parison mold carrier for a glassware forming machine is provided with adjusting means to change the elevation of the blank in a micrometric manner to thereby accurately position the blank relative to a finish ss5 ring and a clamp for clamping the blank and the finish ring together. The adjusting means includes an arbor slidable axially of the blank, and a wedge slidable at right angles to the arbor and adjusted by an adjusting screw, inclined surfaces between the wedge and the arbor being at such angle as to provide comparatively fine increments of axial adjustment of the arbor compared to increments of rotation of the adjusting screw. A simple locking means is also provided for the adjusting screw. B

Classifications:

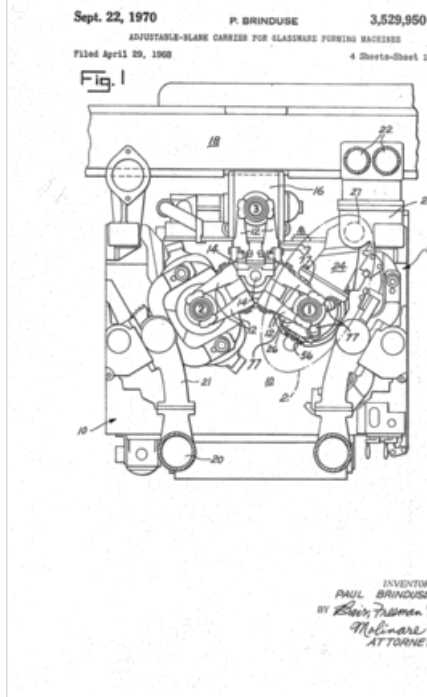
International (IPC 8-9): C03B9/18 C03B9/353 (Advanced/Invention); C03B9/00 (Core/Invention)

International (IPC 1-7): C03B9/18 C03B9/30 C03B9/40

CPC: C03B9/18 C03B9/353

European: C03B9/18 C03B9/353

US: 65/231 65/242 65/323 65/359 65/360 65/361

**Family:**

Publication number	Publication date	Application number	Application date
US3529950 A	19700922	US19680725007	19680429

Priority:

US19680725007 19680429

Probable Assignee:

LYNCH CORP

Assignee(s): (std):

LYNCH CORP

Inventor(s): (std):

BRINDUSE PAUL

Inventor(s):

PAUL BRINDUSE

38) Family number: 19228413 (DE437403A)

© PatBase

Title: GLASBLASEMASCHINE GLASS BUBBLE MACHINE (Machine translation)

Abstract: Source: DE437403A [DE] (Claim 1) 1. PATENTANSPRUECHE:: i. Glasblasemaschine mit geteilter Form, bei welcher die innere formgebende Wandung durch auswechselbar an ihren zwecks oeffnens und Schliessens der Form beweglichen Traegern befestigte Formschalen gebildet ist, dadurch gekennzeichnet, dass die Halter, an welchen die Formschalen (6) auswechselbar befestigt sind, in beliebigem radialen Abstand vom Formmittelpunkt (die Form geschlossen gedacht) an ihren zwecks oeffnens und Schliessens der Form beweglichen Traegern (2a, 2v) befestigt werden koennen.

Machine translation: (claim 1) 1 Claims:: i glass bubble machine with a divided form, wherein the inner shaping Wand application fixed by exchangeable at their for opening and closing of the mold moving Lichen carriers shell molds GE forms, characterized in that the holder to which the shell molds (6) attached are interchangeable, in accordance arbitrary. radial distance from the point forming means (thought the 'closed form) for opening and closing of its form reinforces the mobile carriers (2a, 2v) can be be.

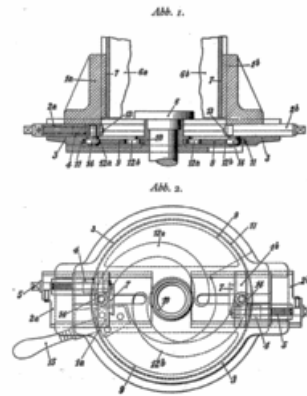
Classifications:

International (IPC 8-9): C03B9/353 (Advanced/Invention);
C03B9/00 (Core/Invention)

International (IPC 1-7): C03B9/353

CPC: C03B9/353

European: C03B9/353



AU2016396595 BB	20190221	AU20160396595	20160310
BR112018068163 A2	20190212	BR20181168163	20160310
CA3016854 AA	20180906	CA20163016854	20160310
CN108713004 A	20181026	CN201680083335	20160310
CO20180010759 A2	20181022	CO20180010759	20181005
EP3428131 A1	20190116	EP20160893711	20160310
EP3428131 A4	20191009	EP20160893711	20160310
JP2019507720 T2	20190322	JP20180546878T	20160310
JP6578070 B2	20190918	JP20180546878T	20160310
KR20180116435 A	20181024	KR201807029126	20160310
MX2018010933 A1	20190110	MX20180010933	20160310
RU2697343 C1	20190813	RU20180135386	20160310
SG11201807057U A1	20180927	SG20181107057	20160310
US2019092671 AA	20190328	US20160083159	20160310
WO17155380 A1	20170914	WO2016MX00025	20160310

WO2016MX00025 20160310

Assignee(s): (std): VITRO S A B D E C V ; VITRO S A B D E S V

Assignee(s): VITRO SAB DE CV ; VITRO SAB DE SV ; TIJERINA RAMOS VICTOR

Inventor(s): (std): TIJERINA RAMOS VICTOR ; VICTOR RAMOS TIJERINA ; VICTOR TIJERINA RAMOS ; TIKHERINA RAMOS VIKTOR

Agent(s): COLLISON AND CO; MARKS AND CLERK; F AND E PATENT; ASAMURA PATENT OFFICE PC;
SOYUZPATENT OOO; 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 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 TH TJ TM TN TR TT TZ UA UB UG UZ VC VN ZA ZM ZW

Title: PROCESS FOR GLASS DESIGNING

Classifications:

International (IPC 8-9): C03B9/31 C03B9/34 C03B9/347 C03B9/353
C03C17/02 (Advanced/Invention);

C03B9/00 C03C17/02 (Core/Invention)

International (IPC 1-7): C03C17/04

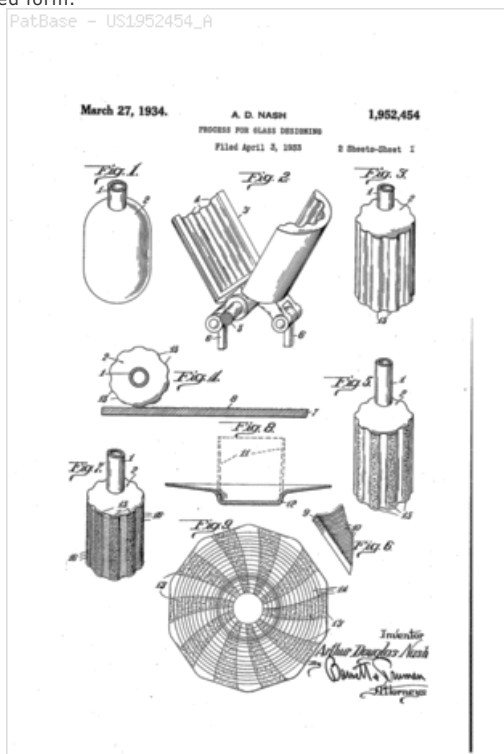
CPC: C03B9/31 C03B9/344 C03B9/35

European: C03B9/31 C03B9/347 C03B9/34C C03B9/353

C03C17/02

US: 65/60.2

001 00, 001= 00, 01



Publication number	Publication date	Application number	Application date
US1952454 A	19340327	US19330664137	19330403

US19330664137 19330403

Assignee(s): (std): LIBBEY GLASS MFG CO ; LIBBEY GLASS MFG COMPANY

Assignee(s): THE LIBBEY GLASS MANUFACTURING COMPANY

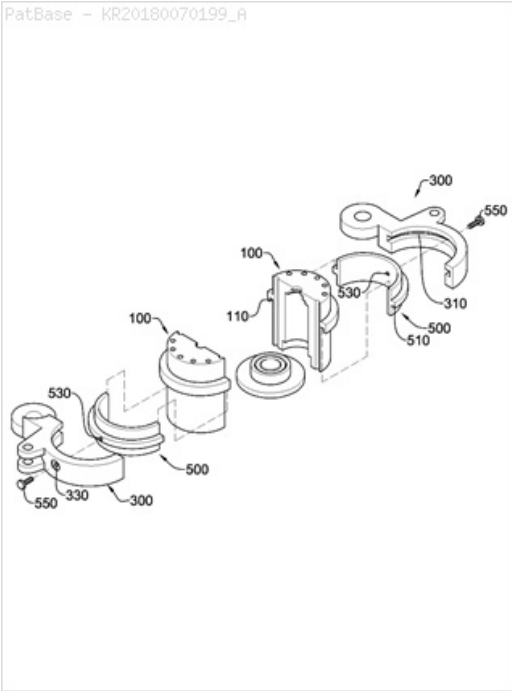
Inventor(s): (std): DOUGLAS NASH ARTHUR

41) Family number: 70235464 (KR20180070199A) PatBase

Title: HOLDER FOR MANUFACTURING MOLDS USED IN COMPLIANT TO THE GLASS BOTTLE

Abstract: The present invention relates to glass container manufacturing equipment with a compatible holder, which can select and use a machine according to characteristics of a bottle to be manufactured regardless of manufacture countries by giving compatibility by inserting any one holder manufactured in mm and any one holder manufactured in inch inside or outside between a clamp and a mold for manufacturing a glass container to provide compatibility between the clamp grasping the mold and the mold for manufacturing a glass container manufactured in mm or inch which is a unit used according to countries. A holder (500) compensates for a gap by being combined between a clamp and a mold in a pair of semicircles, is formed in a fastening block (510) to be combined with a fastening groove of the clamp, and has an insertion hole (530) to be fixated on the clamp by a fixing pin (550). The present invention can compensate for a gap generated by a used size unit or a manufacture country of a mold and a clamp by inserting a part of the holder into a mold groove when the clamp grasps the mold by being fixated by a fixing pin while being combined with a fastening groove installed inside the clamp so that a part of the holder protrudes.

Classifications:
International (IPC 8-9): C03B9/347 C03B9/353 (Advanced/Invention)
CPC: C03B9/353 C03B9/347 Y02P40/57



Family:

Publication number	Publication date	Application number	Application date
KR101876967 B1	20180711	KR20160172620	20161216
KR20180070199 A	20180626	KR20160172620	20161216

Priority:

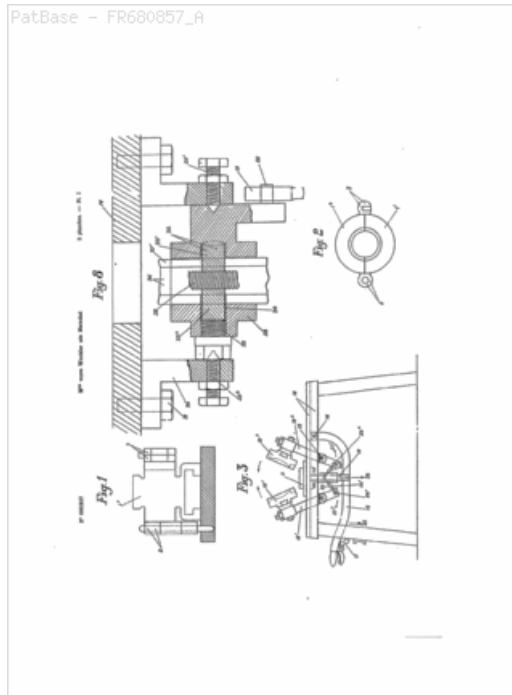
KR20160172620 20161216

Probable Assignee: CHOI SSANG IM
Assignee(s): (std): CHOI SSANG IM
Assignee(s): YANG ; BEST LIM
Inventor(s): (std): CHOI SSANG IM

42) Family number: 19002470 (FR680857A) PatBase

Title: Moule de verrerie

Classifications:
International (IPC 8-9): C03B9/353 (Advanced/Invention);
C03B9/00 (Core/Invention)
International (IPC 1-7): C03B9/02
CPC: C03B9/353
European: C03B9/353

**Family:**

Publication number	Publication date	Application number	Application date
FR680857 A	19300507		19290827

Priority:

19290827

Inventor(s): (std):

WINCKLER VEUVE

43) Family number: 17748521 (US2004099012A)

© PatBase

Title: DEVICE FOR CLOSING AND OPENING THE MOULD HALVES OF A GLASS MOULDING MACHINE

Abstract: Each mold half is held by means of a mold half holding mechanism which can be driven so as to pivot in a reciprocating manner about a common vertical hinge column by means of a vertical shaft (6; 7), which is mounted in a rotatable manner in a frame (2) of the glass forming machine (1), and by means of first intermediate members. Each shaft (6; 7) is connected via a lever mechanism (8; 9) to a common drive shaft which can be pivoted in a reciprocating manner by means of a drive element (19), which can be moved linearly in a reciprocating manner, of a drive (20) and by means of second intermediate members (18). The drive element (19) can be mounted on a nut (26) and secured against rotating about a longitudinal axis (39) of the drive element (19) by means of a guide device (32). The nut (26) is in engagement with a spindle (33). The spindle (33) is mounted in an axially fixed, rotatable manner and can be driven rotationally in a reciprocating manner by means of the drive (20).

Classifications:

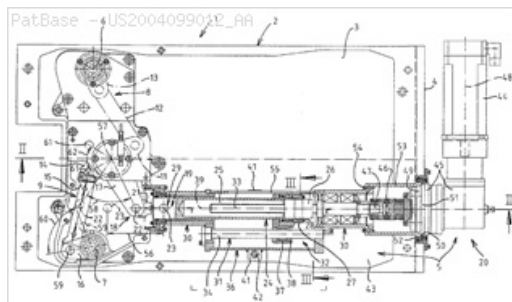
International (IPC 8-9): C03B9/16 C03B9/353 (Advanced/Invention); C03B9/00 (Core/Invention)

International (IPC 1-7): C03B11/06 C03B9/14 C03B9/16 C03B9/353

CPC: C03B9/165 C03B9/353 C03B9/3532

European: C03B9/16B C03B9/353 C03B9/353A

US: 65/323 65/357 65/360 653/23

**Family:**

Publication number	Publication date	Application number	Application date
AU2002212261 AA	20020618	AU20020212261	20010920
DE20020657 U1	20020221	DE20002020657U	20001206
DE50108006 D1	20051215	DE20015008006	20010920
EP1278705 A1	20030129	EP20010980414	20010920
EP1278705 B1	20051109	EP20010980414	20010920
US2004099012 AA	20040527	US20020275796	20021108
US7017374 BB	20060328	US20020275796	20021108
WO0246111 A1	20020613	WO2001EP10865	20010920

Priority:

DE20002020657U 20001206

DE20015008006 20010920

WO2001EP10865 20010920

Probable Assignee: HERMANN HEYE II

Assignee(s): (std): BOEGERT HERMANN ; DRAWERT MANFRED ; HERMANN HEYE I INS FA ; HERMANN HEYE I I FA ; HEYE INT GMBH ; HEYE INTERNATIONAL GMBH

Assignee(s): HEYE HOLDING GMBH ; HEYE INT ; HERMANN HEYE II ; HERMANN HEYE II FA ; HERMANN HEYE IINS FA ; FA HERMANN HEYE I INS ; FIRMA HERMANN HEYE I I ; BOGERT HERMANN

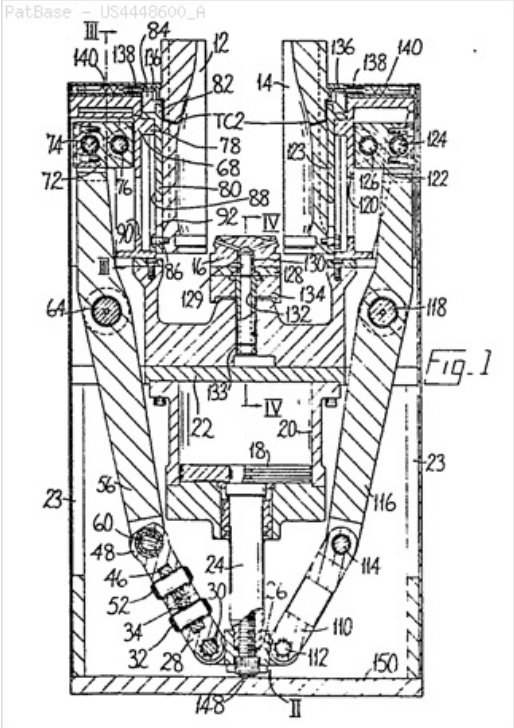
Inventor(s): (std): BOEGERT HERMANN ; BOGERT HERMANN ; DRAWERT MANFRED
Inventor(s): MANFRED DRAWERT ; HERMANN BOGERT
Agent(s): SYNNESTVEDT AND LECHNER LLP
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

44) Family number: 1964536 (US4448600A) © PatBase

Title: Mould opening and closing mechanism

Abstract: PCT No. PCT/GB82/00049 Sec. 371 Date Sep. 30, 1982 Sec. 102(e) Date Sep. 30, 1982 PCT Filed Feb. 22, 1982 PCT Pub. No. WO82/02877 PCT Pub. Date Sep. 2, 1982. A mould opening and closing mechanism for opening and closing three moulds simultaneously. Moving means (18, 20) operable to move mould portions (12) is connected to the mould portions (12) via a system of links which serves to equalize the mould closing pressures of the three moulds. The system of links comprises a link (34) centrally connected to the moving means (18, 20) which equalizes the pressure between one mould and a further link (46) and the further link (46) equalizes the pressure between the other two moulds.

Classifications:
International (IPC 8-9): B29C33/24 B29C49/56 C03B9/13 C03B9/34 C03B9/353 C03B9/38 C03B9/40 C03B9/41 F16H21/10 G05G9/00 (Advanced/Invention); B29C49/56 G05G9/00 (Advanced/Non-invention); B29C33/22 B29C49/56 C03B9/00 F16H21/00 G05G9/00 (Core/Invention)
International (IPC 1-7): B29C1/00 B29C49/56 B29D23/03 C03B11/06 C03B9/13 C03B9/16 C03B9/193 C03B9/34 C03B9/353 C03B9/38 C03B9/40 F16H21/10 G05G9/00
CPC: C03B9/353 C03B9/3537 C03B9/3816 C03B9/3875
European: C03B9/353 C03B9/353B C03B9/38 C03B9/38D C03B9/38J
US: 65/158 65/161 65/162 65/227 65/261 65/265 65/267 65/29.1 65/29.21 65/290 65/355 65/359 65/360



Family:

Publication number	Publication date	Application number	Application date
AU198281406 A1	19820914	AU19820081406	19820222
AU198281408 A1	19820914	AU19820081408	19820222
AU198281416 A1	19820914	AU19820081416	19820222
AU547416 B2	19851017	AU19820081406	19820222
AU547417 B2	19851017	AU19820081408	19820222
AU547425 B2	19851017	AU19820081416	19820222
CA1192404 A1	19850827	CA19820397059	19820225
CA1192405 A1	19850827	CA19820397060	19820225
CA1196194 A1	19851105	CA19820397136	19820225
DE3261405 D1	19850117	DE19823261405	19820222
DE3261729 D1	19850214	DE19823261729	19820222
DE3263222 D1	19850530	DE19823263222	19820222
EP0059573 A1	19820908	EP19820300874	19820222
EP0059573 B1	19841205	EP19820300874	19820222
EP0059574 A1	19820908	EP19820300875	19820222
EP0059574 B1	19850102	EP19820300875	19820222
EP0059580 A1	19820908	EP19820300881	19820222
EP0059580 B1	19850424	EP19820300881	19820222
JP1053208 B4	19891113	JP19820500664	19820222
JP58500117 T2	19830120	JP19820500668T	19820222
JP58500120 T2	19830120	JP19820500673T	19820222
JP58500161 T2	19830203	JP19820500664	19820222
US4448600 A	19840515	US19820433140	19820930
US4505730 A	19850319	US19820433123	19820930
US4557744 A	19851210	US19840597989	19840409
WO8202877 A1	19820902	WO1982GB00049	19820222
WO8202881 A1	19820902	WO1982GB00047	19820222
WO8202883 A1	19820902	WO1982GB00057	19820222

Priority:

GB19810006257 19810227 GB19810006259 19810227 WO1982GB00047 19820222

Probable Assignee: EMHART GLASS SA

Assignee(s): (std): BOOTH BRIAN ; BRAITHWAITE DAVID ; JONES STANLEY PETER ; GENNARD DEREK ; FENTON FRANK ALAN ; FOSTER THOMAS VINCENT ; EMHART IND

Assignee(s): GLASS MACHINERY INC ; EMHART IND INC ; FOSTER THOMAS V ; JONES STANLEY P ; FENTON FRANK A ; EMHART INDUSTRIES INC ; EMHART GLASS MACHINERY INC ; EMHART GLASS MACHINERY INVESTMENTS INC ; EMHART GLASS SA

Inventor(s): (std): FENTON F A ; BOOTH B ; JONES S P ; GENNARD D ; BRAITHWAITE D ; FOSTER T V ; FENTON F A BOOTH B JONES S P G ; FOSTER THOMAS V ; BRAITHWAITE DAVID ; JONES STANLEY P ; FENTON FRANK A ; BOOTH BRIAN ; GENNARD DEREK ; JONES STANLEY PETER ; FOSTER THOMAS VINCENT ; FENTON FRANK ALAN

Inventor(s): BURASUEITO DEIUTSUDO ; JOONZU SUTANRII PIITAA ; FENTON F A BOOTH B JONES S P GENNARD D ; S P JONES ; B BOOTH ; F A FENTON ; D GENNARD ; D BRAITHWAITE ; T V FOSTER ; TV FOSTER ; SP JONES ; FENTON FA

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; OGILVY RENAULT LLP SENCRL SRL; OGILVY RENAULT

Designated states: AU BE DE FR GB IT JP US

45) Family number: 1964558 (US4443241A)

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Title: Method of and apparatus for monitoring the closing action of a mould

Abstract: PCT No. PCT/GB82/00051 Sec. 371 Date Sep. 30, 1982 Sec. 102(e) Date Sep. 30, 1982 PCT Filed Feb. 22, 1982 PCT Pub. No. WO82/02878 PCT Pub. Date Sep. 2, 1982. A signal is produced which is representative of a position of a part of a mould (1b, 7b, 8b, 9b) at a time in a cyclic process of forming glassware when the mould (1, 7, 8, 9) should be closed. This signal is compared with a signal representative of the position of the mould part (1b, 7b, 8b, 9b) when the mould is correctly closed. This latter signal is produced by averaging a selected number of the immediately preceding signals representative of the position of the part of the mould at the time when the mould should be closed.

Classifications:

International (IPC 8-9): C03B9/16 C03B9/353 C03B9/40

C03B9/41 (Advanced/Invention);

C03B9/00 (Core/Invention)

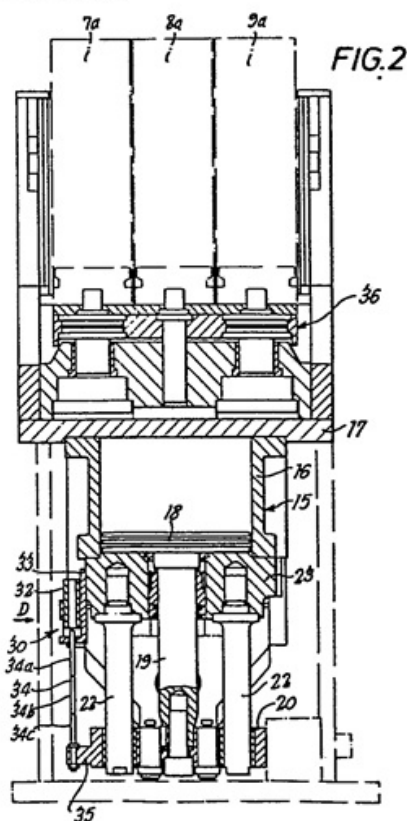
International (IPC 1-7): C03B11/16 C03B9/14 C03B9/16 C03B9/353 C03B9/40

CPC: C03B9/16 C03B9/353 C03B9/3537 C03B9/41

European: C03B9/16 C03B9/353 C03B9/353B C03B9/41

US: 65/158 65/159 65/164 65/29 65/29.1

PatBase - US4443241_A



Family:

Publication number	Publication date	Application number	Application date
AU198281410 A1	19820914	AU19820081410	19820222
AU547419 B2	19851017	AU19820081410	19820222
CA1194311 A1	19851001	CA19820397023	19820225
DE3260228 D1	19840719	DE19823260228	19820222
EP0059576 A1	19820908	EP19820300877	19820222
EP0059576 B1	19840613	EP19820300877	19820222
JP1055203 B4	19891122	JP19820500666	19820222
JP58500163 T2	19830203	JP19820500666	19820222
US4443241 A	19840417	US19820432926	19820930
WO8202878 A1	19820902	WO1982GB00051	19820222

Priority:

GB19810006178 19810227

WO1982GB00051 19820222

CA19820397023 19820225

Probable Assignee: EMHART GLASS SA

Assignee(s): (std): EMHART IND ; JONES STANLEY PETER
Assignee(s): JONES STANLEY P ; EMHART GLASS MACHINERY INC ; EMHART GLASS MACHINERY INVESTMENTS INC ; EMHART GLASS SA ; EMHART IND INC ; EMHART INDUSTRIES INC ; GLASS MACHINERY INC
Inventor(s): (std): JONES S P ; JONES STANLEY P ; JONES STANLEY PETER
Inventor(s): S P JONES ; JONES SP ; SP JONES ; JOONZU SUTANRII PIITAA
Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; OGILVY RENAULT LLP SENCRL SRL
Designated states: AU BE DE FR GB IT JP US

46) Family number: 19917561 (US1727221A)

© PatBase

Title: MOLD MECHANISM FOR GLASS-WORKING MACHINES

Classifications:

International (IPC 8-9): C03B9/12 C03B9/353 (Advanced/Invention); C03B9/00 (Core/Invention)

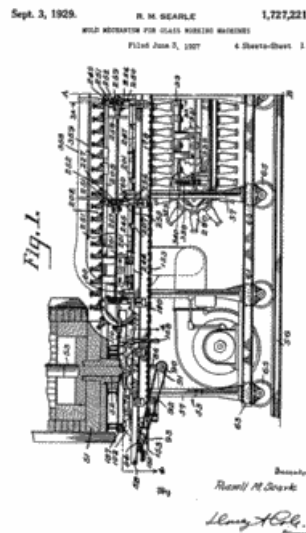
International (IPC 1-7): C03B9/12 C03B9/353

CPC: C03B9/12 C03B9/353 C03B9/3537

European: C03B9/12 C03B9/353 C03B9/353B

US: 106/281.1 65/359

PatBase - US1727221_A



Family:

Publication number	Publication date	Application number	Application date
US1727221 A	19290903	US19270196246	19270603

Priority:

US19270196246 19270603

Probable Assignee: CORNING INC

Assignee(s): (std): CORNING GLASS WORKS ; CORNING INC

Inventor(s): (std): SEARLE RUSSELL M

47) Family number: 29328563 (US7698907B)

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Title: MOLD ASSEMBLY FOR GLASS ARTICLES

Abstract: A mold assembly (**10; 40**) for molding a hollow glass article comprising a mold (**12**) that is made up of a separable pair of mold elements (**12a, 12b; 42**) and a mold holder (**14; 44**) that surrounds a portion of the mold of substantial axial length. The mold is separable from the mold holder, and the exterior of each mold segment is provided with a plurality of cooling fins (**12e; 42e**). The mold holder is made up of a separable pair of mold holder sections (**16, 18; 46**), and each mold holder section has a fluid flow passage (**20; 50**) extending therethrough. The fluid flow passage is radially open to permit fluid flowing therethrough to flow inwardly against the fins of an adjacent mold element. Each mold holder section has a perforated screen (**26; 56**) affixed thereto to vary the distribution of the flow of fluid from the mold holder section against the fins of the adjacent mold element.

Classifications:

International (IPC 8-9): C03B11/06 C03B11/12 C03B9/16

C03B9/197 C03B9/353 C03B9/38 (Advanced/Invention);

C03B11/06 C03B11/12 (Advanced/Non-invention);

C03B11/06 C03B11/12 C03B9/00 (Core/Invention)

International (IPC 1-7): C03B C03B11/06 C03B11/10 C03B11/12

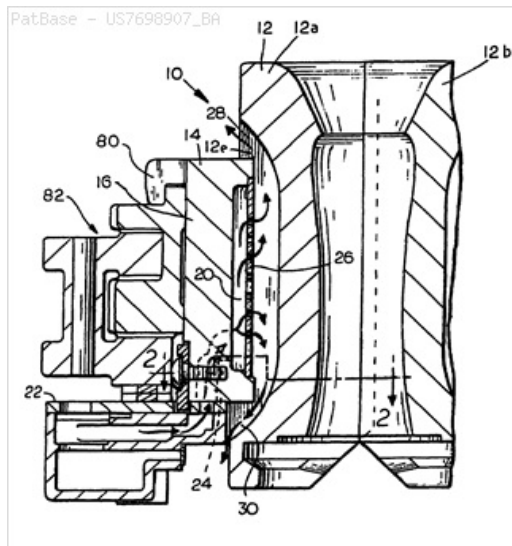
C03B19/02 C03B23/0 C03B9/00 C03B9/16 C03B9/193 C03B9/197

C03B9/20 C03B9/34 C03B9/353 C03B9/38

CPC: C03B9/353 C03B9/3875

European: C03B9/353 C03B9/38 C03B9/38J

US: 65/267 65/319 65/355 65/359 65/361

**Family:**

Publication number	Publication date	Application number	Application date
AT236858 E	20030415	AT19970111943T	19970714
AU199728644 A1	19980122	AU19970028644	19970714
AU728491 B2	20010111	AU19970028644	19970714
BRPI9703973 A	19981222	BR1997PI03973	19970715
CA2210436 AA	19980115	CA19972210436	19970714
CA2210436 C	20030415	CA19972210436	19970714
CL1997001401 A1	19980311	CL19970001401	19970714
CL43231 B	20070912	CL19970001401	19970714
CN1174819 A	19980304	CN19971017131	19970714
CN1178870 C	20041208	CN19971017131	19970714
CO4700502 A1	19981229	CO19970039931	19970715
CZ222697 A3	19980318	CZ19970002226	19970714
CZ293715 B6	20040714	CZ19970002226	19970714
CZ9702226 A3	19980318	CZ19970002226	19970714
DE69720608 D1	20030515	DE19976020608	19970714
DE69720608 T2	20040212	DE19976020608T	19970714
DK0819654 T3	20030804	DK19970111943T	19970714
EE03820 B1	20020815	EE19970000155	19970715
EE9700155 A	19980216	EE19970000155	19970715
EP0819654 A2	19980121	EP19970111943	19970714
EP0819654 A3	19980311	EP19970111943	19970714
EP0819654 B1	20030409	EP19970111943	19970714
ES2196216 T3	20031216	ES19970111943T	19970714
HU219390 B	20010328	HU19970001197	19970714
HU9701197 A0	19970828	HU19970001197	19970714
HU9701197 AB	19980428	HU19970001197	19970714
HU9701197 AC	19990428	HU19970001197	19970714
JP10182170 A2	19980707	JP19970222908	19970715
JP3051702 B2	20000612	JP19970222908	19970715
MX9705347 A1	19980731	MX19970005347	19970715
PE30699 A1	19990323	PE19970000628	19970715
PL183887 B1	20020731	PL19970321127	19970715
PL321127 A1	19980119	PL19970321127	19970715
PT819654 T	20030829	PT19970111943T	19970714
US7698907 BA	20100420	US19960679781	19960715
ZA9706221 A	19980203	ZA19970006221	19970714

Priority:

US19960679781 19960715 CA19972210436 19970714

Probable Assignee: OWENS BROCKWAY GLASS CONTAINER INC**Assignee(s):** (std): OWENS BROCKWAY GLASS CONTAINER**Assignee(s):** OWENS BROCKWAY GLASS CONTAINER INC ; OWENS BROCKWAY GLASS CONTAINER INC TOLEDO ; OWENS BROCKWAY GLASS CONTAINER INC TOLEDO OHIO ; HAUSER RUSSELL M ; HAYES DAN M ; NUZUM ROBERT E ; OLSON DUDLEY T**Inventor(s):** (std): HAYES D M ; HAUSER R M ; OLSON D T ; RUSSEL M HAUSER ; ROBERT E NUZUM ; DUDLEY T OLSON ; RUSSELL M HAUSER ; DAN M HAYES ; HAUSER RUSSEL M ; OLSON DUDLEY T ; NUZUM ROBERT E ; OLSEN DUDLEY T ; HAUSER RUSSELL M ; HAYES DAN M**Inventor(s):** R M HAUSER ; D T OLSON ; D M HAYES ; DUDLEY T OLSEN ; DM HAYES ; RM HAUSER ; DT OLSON**Agent(s):** SHELSTON IP; SHELSTON IP PTY LTD; GOWLING LAFLEUR HENDERSON LLP; JOHANSSON; RAMIRO CASTRO DUQUE**Designated states:** AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Classifications:
International (IPC 1-7): C03B9/24 C03B9/30
CPC: C03B9/24 C03B9/353
European: C03B9/24 C03B9/353

Family:

Publication number	Publication date	Application number	Application date
SE203069 C1	00000000		00000000

49) Family number: 2016609 (US4695307A)

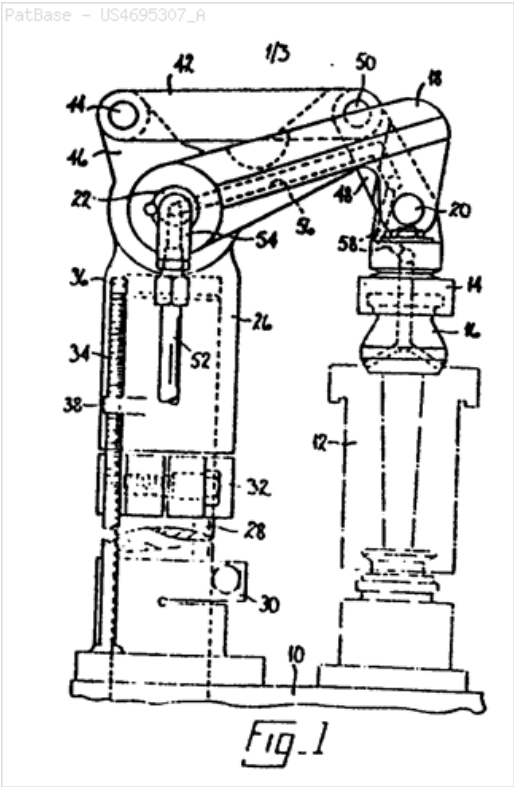
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Title: Baffle moving mechanism for use in a glassware manufacturing machine of the individual section type

Abstract: A moving mechanism for moving a baffle (16), funnel or blowhead. A support (14) for the member is pivotally mounted on a first horizontal axis (20) on an arm (18) which is mounted to turn about a second horizontal axis (22) to move the member between operative and out-of-the-way positions. Driving means (24) is operable to turn the arm about the second horizontal axis and orientation means (42) maintains the member in a constant orientation during movement of the arm.

Classifications:

International (IPC 8-9): C03B9/16 C03B9/30 C03B9/353
C03B9/40 (Advanced/Invention);
C03B9/00 (Core/Invention)
International (IPC 1-7): C03B7/08 C03B9/00 C03B9/16 C03B9/30
C03B9/335 C03B9/40
CPC: C03B9/165 C03B9/353 C03B9/3618
European: C03B9/16B C03B9/353 C03B9/36 C03B9/36C
US: 65/233 65/234 65/242 65/307



Family:

Publication number	Publication date	Application number	Application date
DE3666691 D1	19891207	DE19863666691	19860625
EP0210748 A1	19870204	EP19860304894	19860625
EP0210748 B1	19891102	EP19860304894	19860625
GB2178025 A1	19870204	GB19850018717	19850724
GB2178025 B2	19881005	GB19850018717	19850724
GB8518717 A0	19850829	GB19850018717	19850724
JP1926375 C3	19950425	JP19860168995	19860717
JP6053575 B4	19940720	JP19860168995	19860717
JP62027333 A2	19870205	JP19860168995	19860717
US4695307 A	19870922	US19860887145	19860717
US4743286 A	19880510	US19870077267	19870724

Priority:

GB19850018717 19850724 US19860887145 19860717

Probable Assignee: EMHART IND INC

Assignee(s): (std): EMHART IND

Assignee(s): GLASS MACHINERY INC ; EMHART INDUSTRIES INC ; EMHART IND INC ; GLASS MACHINERY INC A OF DE CORP ; EMHART GLASS MACHINERY (US) INC A CORP OF DE ; EMHART GLASS MACHINERY INC ; EMHART GLASS MACHINERY US INC A CORP OF DE

Inventor(s): (std): NEBELUNG H H ; HERUMAN HAINRITSUHI NEEBERUNKU ; NEBELUNG HERMANN H ; NEBELUNG HERMANN HEINRICH

Inventor(s): H H NEBELUNG

Designated states: DE FR IT

50) Family number: 19534619 (DE621668A)

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Title: MEHRTEILIGE GLASFORM MULTIPLE GLASS FORM (Machine translation)

Abstract: Source: DE621668A [DE] (Claim 1) 1.PATENTANSPRUECHE: i. Mehrteilige Glasform, dadurch gekennzeichnet, dass mindestens eine Form haelfte an der Gelenkstiftseite mit einem auswechselbaren und nachstellbaren Ge lenk versehen ist. a. Glasform nach Anspruch i, dadurch gekennzeichnet, dass mindestens eine Formhaelfte an der Schliessseite mit einem auswechselbaren und nachstellbaren Ge lenk versehen ist. 3. Glasform nach Anspruch i und z, da durch.gekennzeichnet, dass die auswechsel baren Gelenke aus anderem Werkstoff als die Form hergestellt sind.

Machine translation: (claim 1) 1.PATENTANSPRUECHE: i Multipart glass shape, characterized in that at least one mold half at the hinge pin side with a removable and adjustable locking cam is total. a glass mold according to Claim i, characterized in that at least one Formhaelfte is provided at the steering locking side with a replaceable and adjustable Ge. Third Crystal form of claim i, and z because durch.gekennzeichnet that the exchangeable Baren joints are made of material other than the form.

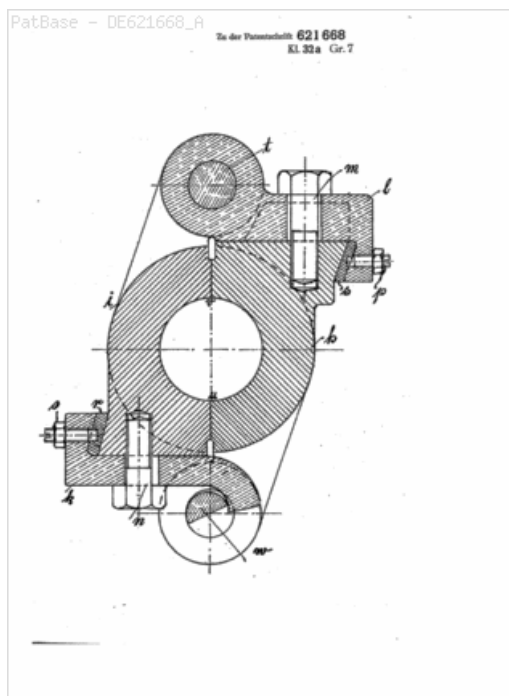
Classifications:

International (ipc 8-9): C03B9/347 C03B9/353 (Advanced/Invention); C03B9/00 (Core/Invention)

International (ipc 1-7): C03B9/02

CPC: C03B9/347 C03B9/353

European: C03B9/347 C03B9/353



Family:

Publication number	Publication date	Application number	Application date
DE621668 A	19351111	DE1934Z022142D	19341205

Priority:

DE1934Z022142 19341205

Probable Assignee:

KARL ZUMPE

Assignee(s): (std):

KARL ZUMPE

51) Family number: 15814625 (US6233975B)

© PatBase

Title: Common cage assembly

Abstract: A common cage assembly for a mold for a glassware machine having a mold support member. The assembly further includes a first cage member and a second cage member. Each of the cage members is movably mounted adjacent to the mold support member. Each of the cage members has a mold receiving surface.

Classifications:

International (ipc 8-9): B29C33/30 B29C49/56 C03B11/06 C03B11/08 C03B11/10 C03B9/347 C03B9/353 (Advanced/Invention); B29C49/06 (Advanced/Non-invention); B29C33/30 B29C49/56 C03B11/06 C03B9/00 (Core/Invention); B29C49/06 (Core/Non-invention)

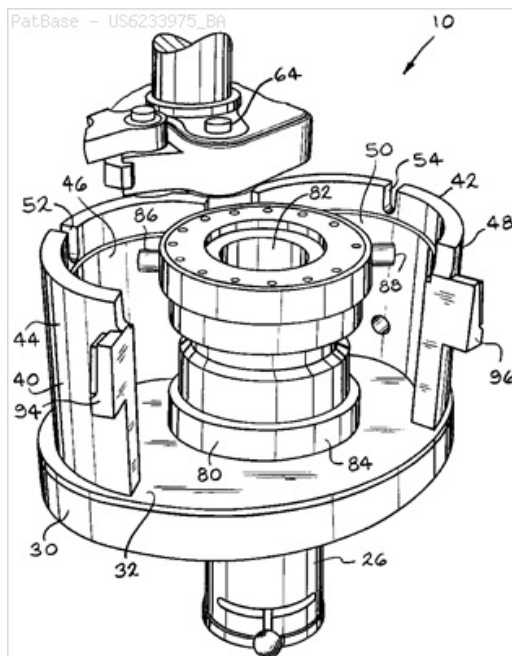
International (ipc 1-7): B29C B29C49/56 C03B11/08 C03B11/10

CPC: B29C33/305 B29C49/06 B29C2049/4856 B29K2709/08 C03B9/353 C03B9/3532 C03B11/06

European: B29C33/30D C03B11/06 C03B9/353 C03B9/353A

L29C49/06 L29C49/48E L29K709/08

US: 425/188 65/171 65/173 65/242 65/321 65/323 65/357 65/360 65/361



Family:

Publication number	Publication date	Application number	Application date
AT264742 E	20040515	AT20000910285T	20000223
BRPI0010368 A	20020108	BR2000PI10368	20000223
BRPI0010368 B1	20090811	BR2000PI10368	20000223
CN1116158 C	20030730	CN20008005385	20000223
CN1344202 A	20020410	CN20008005385	20000223
DE60010065 D1	20040527	DE20006010065	20000223
DE60010065 D1	20040527	DE20006010065T	20000223
DE60010065 T2	20050331	DE20006010065T	20000223
DK1171278 T3	20040802	DK20000910285T	20000223
EP1171278 A1	20020116	EP20000910285	20000223
EP1171278 A4	20020529	EP20000910285	20000223
EP1171278 B1	20040421	EP20000910285	20000223
ES2220421 T3	20041216	ES20000910285T	20000223
HK1044312 A1	20040507	HK20020106007	20020816
JP2002540045 T2	20021126	JP20000606404T	20000223
JP4505831 B2	20100721	JP20000606404T	20000223
MXPA01009602 A1	20041202	MX2001PA09602	20000223
PT1171278 T	20040831	PT20000910285T	20000223
TR200102431 T2	20020121	TR20010002431T	20000223
US6233975 BA	20010522	US19990275467	19990324
WO0056521 A1	20000928	WO2000US04544	20000223

Priority:

US19990275467 19990324 WO2000US04544 20000223

Probable Assignee: LIBBEY GLASS INC

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

Assignee(s): JPMORGAN CHASE BANK NA ; MERRILL LYNCH PCG INC ; LIBBEY GLASS INC TOLEDO ; JPMORGAN CHASE BANK NA ADMINISTRATIVE AGENT AS ; CITIBANK NA COLLATERAL AGENT AS ; LIBBEY GLASS INC GRANTOR AS ; BANK OF NEW YORK MELLON TRUST CO ; BANK OF NEW YORK MELLON TRUST CO NA ; BANK OF NEW YORK MELLON TRUST CO NA COLLATERAL AGE ; BANK OF NEW YORK MELLON TRUST CO NA COLLATERAL AGENT AS ; BANK OF NEW YORK TRUST CO ; BANK OF NEW YORK TRUST CO NA COLLATERAL AGENT AS

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

Inventor(s): TE HARTMAN ; HC KROH ; DE CROTS ; T E HARTMAN ; H C KROH ; D E CROTS

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

52) Family number: 8320679 (US4283218A)

© PatBase

Title: Mold mechanism

Abstract: A mold mechanism for opening and closing a split mold is described wherein a single air cylinder moves one half of the mold in a linear direction and simultaneously, through a plurality of interconnected pivotal links, rotates the other half of the mold through an arc of at least 90 degrees so as to open and close the mold halves upon actuation of the air cylinder.

Classifications:

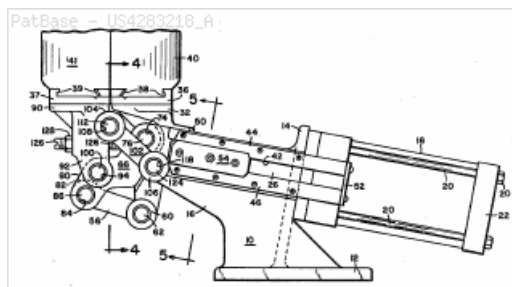
International (IPC 8-9): C03B9/353 (Advanced/Invention); C03B9/00 (Core/Invention)

International (IPC 1-7): C03B11/16 C03B9/40

CPC: C03B9/353

European: C03B9/353

US: 65/357 65/360



Family:

Publication number	Publication date	Application number	Application date
US4283218 A	19810811	US19800120329	19800211

Priority:

US19800120329 19800211

Probable Assignee: CORNING INC
Assignee(s): (std): CORNING GLASS WORKS ; CORNING INC
Assignee(s): CORNING GLASS WORKS CORNING NY A CORP
Inventor(s): (std): STALEY WARREN D

53) Family number: 18134683 (GB145390A)

© PatBase

Title: Improved means for operating the moulds of a bottle-making machine

Abstract: 145,390. Berger, T. Nov. 10, 1919. Blowing. - The moulds of bottlemaking machines are opened and closed by eccentrics operated by hand. The mould halves 1, shown in plan in the drawing, are connected by links 13 with the straps 8 of eccentrics secured to a shaft 5. By moving a hand lever 6, also secured to the shaft 5, the mould may be opened or closed.

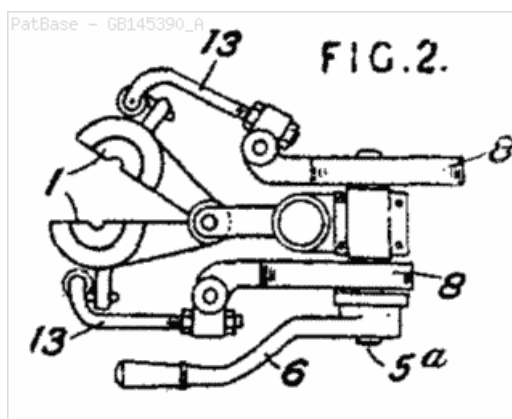
Classifications:

International (IPC 8-9): C03B9/353 (Advanced/Invention);
C03B9/00 (Core/Invention)

International (IPC 1-7): C03B9/353

CPC: C03B9/353 C03B9/3532

European: C03B9/353 C03B9/353A



Family:

Publication number	Publication date	Application number	Application date
GB145390 A	19200702	GB19200010769	19191110

Priority:

GB19200010769 19191110

Probable Assignee: THEODOR BERGER
Assignee(s): (std): THEODOR BERGER

54) Family number: 1980689 (GB2175296A)

© PatBase

Title: Method of supporting the side portions of a parison-forming mould

Abstract: Side portions (10) of a parison-forming mould of a glassware forming machine are supported by upper (22) and lower (20) supports. Each side portion is mounted on the supports so that a downwardly-facing surface (30) of the side portion engages the lower support (20) to define the height of the portion (10). A downward projection (38) of the side portion enters an upwardly-facing recess (40) in the upper support (22).

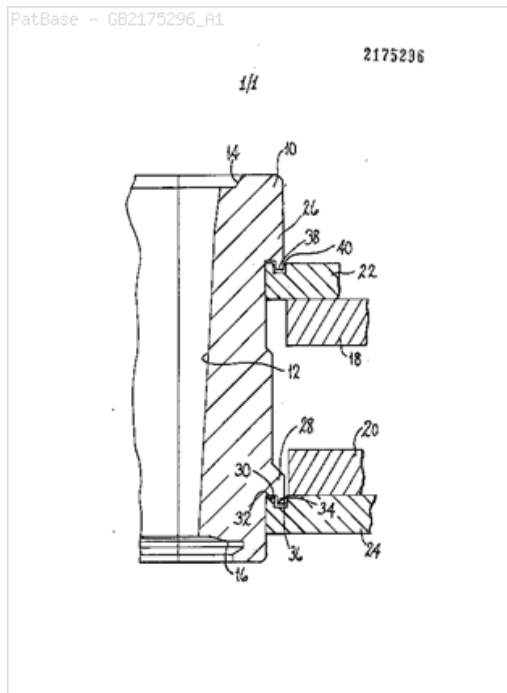
Classifications:

International (IPC 8-9): C03B9/347 C03B9/353 (Advanced/Invention);
C03B9/00 (Core/Invention)

International (IPC 1-7): C03B9/347

CPC: C03B9/347 C03B9/353

European: C03B9/347 C03B9/353

**Family:**

Publication number	Publication date	Application number	Application date
GB2175296 A1	19861126	GB19850012135	19850514
GB2175296 B2	19881123	GB19850012135	19850514
GB8512135 A0	19850619	GB19850012135	19850514

Priority:

GB19850012135 19850514

Probable Assignee:

EMHART IND

Assignee(s): (std):

EMHART IND

Assignee(s):

EMHART INDUSTRIES INC

Inventor(s): (std):

NEBELUNG HERMANN HEINRICH

Inventor(s):

HERMANN HEINRICH NEBELUNG

55) Family number: 42123713 (US2008209951A)

© PatBase

Title: GLASSWARE FORMING MACHINE MOLDS OPENING/CLOSING DEVICE

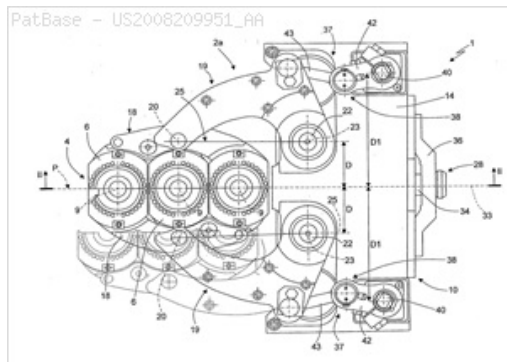
Abstract: A mold of a glassware forming machine has a longitudinal plane of symmetry, and two half-molds movable between a closed position and an open extraction position by a powered mold opening/closing device, which has a fixed fastening and supporting structure, two mold-holders, and, for each mold-holder, a respective supporting and actuating arm hinged to the relative mold-holder to rotate about a movable hinge axis, and to the fixed structure to rotate about a fixed hinge axis; the fixed hinge axes being located on opposite sides of the plane of symmetry, and at such a distance from the plane of symmetry that, when the half-molds are in the closed position, the line intersecting the fixed axis and movable axis of each arm extends substantially parallel to the plane of symmetry.

Classifications:**International (IPC 8-9):** C03B11/06 C03B11/16 C03B9/00

C03B9/197 C03B9/34 C03B9/347 C03B9/353

C03B9/40 (Advanced/Invention);

C03B11/16 C03B9/00 (Core/Invention)

CPC: C03B9/353 C03B9/3537**European:** C03B9/353 C03B9/353B**US:** 65/207 65/227 65/231 65/240 65/243 65/261 65/357 65/359 65/359P 65/360 65/360P**Family:**

Publication number	Publication date	Application number	Application date
DE602008024005 D1	20130627	DE200860024005T	20080206
DE602008024190 D1	20130627	DE200860024190T	20080206
EP1964815 A1	20080903	EP20080151138	20080206
EP1964815 B1	20130424	EP20080151138	20080206
EP2360126 A1	20110824	EP20110162529	20080206
EP2360126 B1	20130424	EP20110162529	20080206
ITTO20070090 A1	20080808	IT2007TO00090	20070207
US2008209951 AA	20080904	US20080027758	20080207
US2011314872 AA	20111229	US20110225106	20110902

US8082758 BB	20111227	US20080027758	20080207
US8316669 BB	20121127	US20110225106	20110902

Priority:

IT2007TO00090 20070207 EP20080151138 20080206 EP20110162529 20080206
US20080027758 20080207 US20110225106 20110902

Probable Assignee: BOTTERO SPA

Assignee(s): (std): ARMANDO LORENZO ; BORSARELLI GIANCLAUDIO ; BOTTERO SPA ; SESIA CARLO

Assignee(s): BOTTERO S P A

Inventor(s): (std): SESIA CARLO ; BORSARELLI GIANCLAUDIO ; ARMANDO LORENZO

Inventor(s): SESIA CARLO 12100 ; BORSARELLI GIANCLAUDIO 12100 ; ARMANDO LORENZO 12100

Agent(s): VOSSIUS AND PARTNER PATENTANWALTE RECHTSANWALTE MBB; JORIO PAOLO ET AL; JORIO PAOLO; SHERIDAN ROSS 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 MK MT NL NO PL PT RO RS SE SI SK TR

56) Family number: 29328765 (US5900035A)

© PatBase

Title: Glass forming machine blank mold cooling apparatus

Abstract: A hollow parison (P) of a glass container is formed from a gob of molten glass, the parison having a body portion (B) with a closed end and an open end. The body portion of the parison is formed in an annular blank mold (14). The parison also has a finish portion (F) at the open end of the body portion of the parison, the finish portion being formed by an annular neck mold (16) which is positioned against an end of the blank mold during the forming of the parison. An annular cage (26) surrounds a substantial axially extending portion of the blank mold. The annular cage receives cooling air and directs cooling air against cooling fins (24) on the exterior of the blank mold to cool the body portion of the parison while it is in the blank mold. Spent cooling fluid from the annular cage flows therefrom through an opening aligned with the open end of the body portion of the parison. The annular cage is axially slideable along the longitudinal central axis of the blank mold with respect to the blank mold and is biased away from the annular neck mold by a compression spring (32) that is trapped between an annular pressure plate (34) and a portion of the annular cage. Cooling air exiting from the opening in the annular cage is caused to flow past the annular neck mold to assist in cooling the finish portion of the parison by an annular skirt (36) that is positioned below the annular pressure plate toward the annular neck mold.

Classifications:

International (IPC 8-9): C03B9/197 C03B9/353

C03B9/38 (Advanced/Invention);

C03B9/00 (Core/Invention)

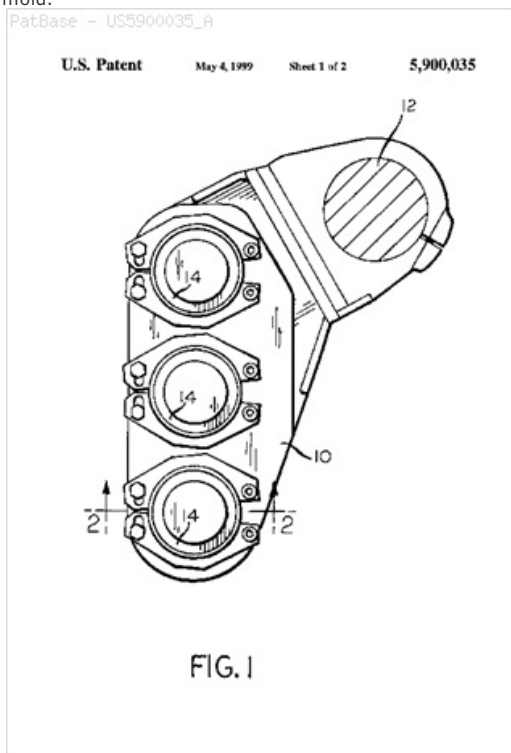
International (IPC 1-7): B29C49/64 C03B11/12 C03B9/197

C03B9/353 C03B9/38

CPC: C03B9/353 C03B9/3875

European: C03B9/353 C03B9/38 C03B9/38J

US: 425/526 65/319 65/355 65/356 65/361 65/68 65/83



Family:

Publication number	Publication date	Application number	Application date
AT246152 E	20030815	AT19980114801T	19980806
CA2245190 AA	19990211	CA19982245190	19980806
CA2245190 C	20070522	CA19982245190	19980806
DE69816728 D1	20030904	DE19986016728	19980806
DE69816728 D1	20030904	DE19986016728T	19980806
DE69816728 T2	20040415	DE19986016728T	19980806
DK0896957 T3	20031027	DK19980114801T	19980806
EP0896957 A1	19990217	EP19980114801	19980806
EP0896957 B1	20030730	EP19980114801	19980806
ES2205343 T3	20040501	ES19980114801T	19980806
JP11130447 A2	19990518	JP19980226870	19980811
JP3051721 B2	20000612	JP19980226870	19980811
PT896957 T	20031128	PT19980114801T	19980806
US5900035 A	19990504	US19970907931	19970811

Priority:

Probable Assignee: OWENS BROCKWAY GLASS CONTAINER INC**Assignee(s):** (std): OWENS BROCKWAY GLASS CONTAINER**Assignee(s):** OWENS BROCKWAY GLASS CONTAINER INC ; OWENS BROCKWAY GLASS CONTAINER INC TOLEDO ; RUMMEL JOHN E JR ; HOENIG RUSSELL D**Inventor(s):** (std): HOENIG RUSSELL D ; RUMMEL JOHN E JR ; RUMMEL JR JOHN E**Inventor(s):** RUSSELL D HOENIG ; JOHN E RUMMEL JR ; RUMMEL JOHN E**Agent(s):** GOWLING LAFLEUR HENDERSON LLP**Designated states:** AT BE CH DE DK ES FI FR GB GR IE IT LI NL PT SE**57) Family number: 29430803** (US4261724A)

© PatBase

Title: Triple gob blowhead or baffle construction

Abstract: A glassware forming machine has at least three individual side-by-side molds at both the blow and the blank side of the machine, which molds are upwardly open and adapted to be closed by a blowhead or baffle depending upon which side of the machine (blank or blow) that the molds are at, that is for either forming the final article at the blow side or the preliminary parison at the blank side. Three blowheads are disclosed for use at the blow side of a machine, and are retained in a carrier arm for limited vertical movement in order to accommodate variations in height of the tops of the individual molds. Two links extend laterally through slots in the blowhead retainers, and a bellcrank lever interconnects these links to the carrier itself so that upon closing contact made between one of the three blowheads and its associated mold, downward movement of the other two blowheads will occur thereby equalizing the closing forces between all three blowheads and their associated molds.

Classifications:**International (IPC 8-9):** C03B9/14 C03B9/16 C03B9/34 C03B9/353 C03B9/36 (Advanced/Invention);

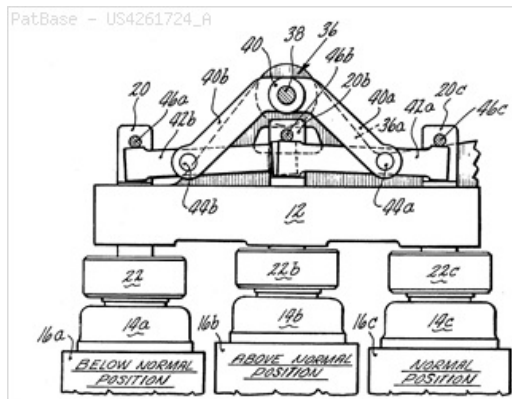
C03B9/00 (Core/Invention)

International (IPC 1-7): C03B9/14 C03B9/193 C03B9/30 C03B9/34 C03B9/36 C03B9/40**CPC:** C03B9/165 C03B9/353 C03B9/3618 C03B9/3636 C03B9/3672 C03B9/369**European:** C03B9/16B C03B9/353 C03B9/36 C03B9/36C

C03B9/36D2 C03B9/36G2 C03B9/36H

US: 65/241 65/260 65/261 65/323

PatBase - US4261724_A

**Family:**

Publication number	Publication date	Application number	Application date
AU198061749 A1	19810507	AU19800061749	19800826
AU532434 B2	19830929	AU19800061749	19800826
CA1151878 A1	19830816	CA19800358430	19800818
DE3039312 A1	19810507	DE19803039312	19801017
DE3039312 C2	19890914	DE19803039312	19801017
FR2468556 A1	19810508	FR19800022149	19801016
FR2468556 B1	19840323	FR19800022149	19801016
GB2061911 A1	19810520	GB19800034539	19801027
GB2061911 B2	19830518	GB19800034539	19801027
IT1129911 A	19860611	IT19800068521	19801002
IT8068521 A0	19801002	IT19800068521	19801002
JP1460612 C3	19880928	JP19800145556	19801017
JP56063830 A2	19810530	JP19800145556	19801017
JP63005333 B4	19880203	JP19800145556	19801017
US4261724 A	19810414	US19790089215	19791029

Priority:

US19790089215 19791029 CA19800358430 19800818

Probable Assignee: EMHART GLASS SA**Assignee(s):** (std): EMHART IND**Assignee(s):** EMHART IND INC ; EMHART INDUSTRIES INC ; GLASS MACHINERY INC ; EMHART INDUSTRIES INC FARMINGTON CONN US ; SARKOZY FRANCIS A ; EMHART GLASS MACHINERY INC ; EMHART GLASS MACHINERY INVESTMENTS INC ; EMHART GLASS SA**Inventor(s):** (std): SARKOZY FA ; FRANCIS A SARKOZY ; FURANSHISU EI SAKOJII ; SARKOZY FRANCIS ALEXANDER ; SARKOZY F A ; SARKOZY FRANCIS A**Inventor(s):** F A SARKOZY ; FRANCIS ALEXANDER SARKOZY ; A SARKOZY FRANCIS ; SARKOZY FRANCIS A GRANBY CONN US**Agent(s):** SPRUSON AND FERGUSON; SWABEY OGILVY RENAULT**58) Family number: 2087819** (US4478630A)

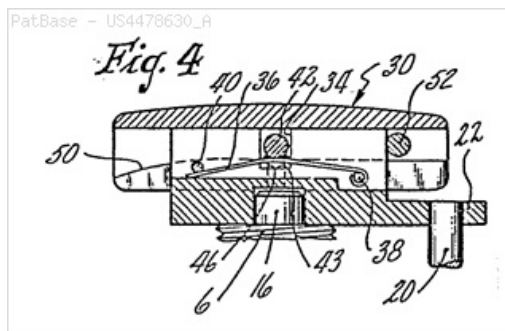
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Title: Bottom plate retainer

Abstract: A bottom plate retainer for a paste mold glassware making machine which includes a mounting block having a leaf spring mounted therein which urges a dowel member downwardly into engagement with a slot on the bottom plate.

Classifications:

International (IPC 8-9): C03B9/00 C03B9/29 C03B9/34
C03B9/353 (Advanced/Invention);
C03B9/00 (Core/Invention)
International (IPC 1-7): C03B9/00 C03B9/29 C03B9/34
CPC: C03B9/344 C03B9/353
European: C03B9/34C C03B9/353
US: 425/182 65/240 65/242



Family:

Publication number	Publication date	Application number	Application date
AU198426995 A1	19840928	AU19840026995	19840302
EP0118299 A2	19840912	EP19840301414	19840302
EP0118299 A3	19850327	EP19840301414	19840302
JP60500529 T2	19850418	JP19840501319	19840302
US4478630 A	19841023	US19830472299	19830304
WO8403496 A1	19840913	WO1984US00311	19840302

Priority:

US19830472299 19830304 WO1984US00311 19840302

Probable Assignee: EMHART IND

Assignee(s): (std): EMHART IND

Assignee(s): EMHART IND INC ; EMHART INDUSTRIES INC

Inventor(s): (std): LAMBERT SCOTT M ; LAMBERT SCOTT MICHAEL ; MICHAEL LAMBERT SCOTT

Inventor(s): LAMBERT SM

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD

Designated states: AU DE FR GB IT JP

59) Family number: 40761825 (US2007251274A)

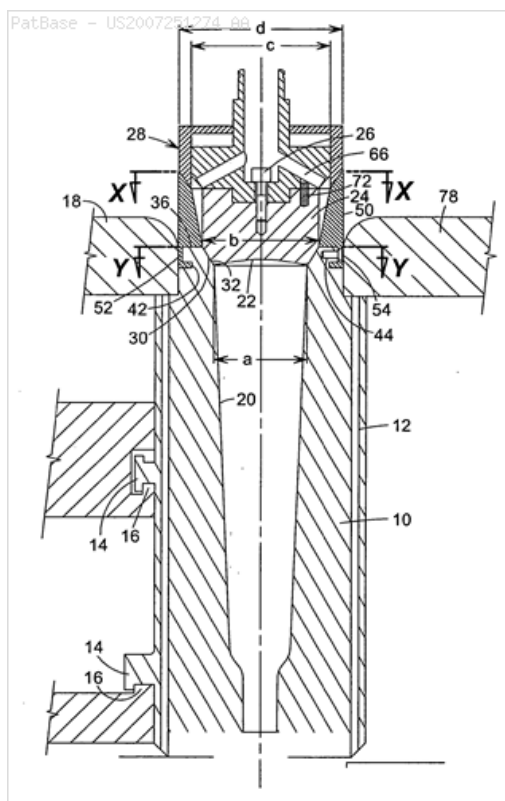
© PatBase

Title: BLANK MOLD FOR AN I. S. GLASS FORMING MACHINE

Abstract: A blank mold for an I. S. Machine is made up of a pair of opposed engaged blanks. When closed, these blanks have a top surface with an opening. The blanks have an inner surface defining the side wall of a parison which extends upwardly to a position a defined distance below the top surface of the blanks and a continuous, beveled surface connecting the top of the inner surface defining the side wall of the parison and the top opening of the blanks. A pair of funnels, each having a continuous beveled surface extending from a circular horizontally disposed top opening downwardly to smaller centrally located bottom opening, are interfit with the top of the blanks with the top opening of the blanks and the bottom opening of the funnel being coextensive.

Classifications:

International (IPC 8-9): B65D1/00 C03B11/00 C03B9/00 C03B9/14
C03B9/16 C03B9/193 C03B9/347 C03B9/353
C03B9/36 (Advanced/Invention);
B65D1/00 C03B11/00 C03B9/00 (Core/Invention)
CPC: C03B9/165 C03B9/347 C03B9/353
European: C03B9/16B C03B9/347 C03B9/353
US: 65/227 65/229 65/230 65/231 65/232 65/235 65/357 65/357P



Family:

Publication number	Publication date	Application number	Application date
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DE602007008164 D1	20100916	DE200760008164T	20070404
EP1849753 A1	20071031	EP20070105677	20070404
EP1849753 B1	20100804	EP20070105677	20070404
JP2007297267 A2	20071115	JP20070072001	20070320
JP4850765 B2	20120111	JP20070072001	20070320
US2007251274 AA	20071101	US20060414063	20060427
US8117869 BB	20120221	US20060414063	20060427

Priority:

US20060414063 20060427

Probable Assignee: EMHART GLASS SA

Assignee(s): (std): EMHART GLASS SA ; FENTON F A ; FENTON F ALAN

Assignee(s): EMHART GLASS S A

Inventor(s): (std): FENTON F ALAN ; FENTON F A

Inventor(s): FENTON F

Agent(s): JOHNSTONE DOUGLAS IAN; MASUI CHUJI; ONO SHINJIRO; KOBAYASHI YASUSHI; SAKUMA SHIGERU; TOMITA HIROYUKI; CHIBA AKIO; SPENCER T SMITH EMHART GLASS RESEARCH INC; REINHART BOERNER VAN DEUREN SC

Designated states: AL BA DE FR GB HR IT MK YU

60) Family number: 20512831 (US1869249A)

© PatBase

Title: MOLD ATTACHING DEVICE FOR GLASS WORKING MACHINES

Abstract: 1. In

Classifications:

International (IPC 8-9): C03B9/353 (Advanced/Invention);

C03B9/00 (Core/Invention)

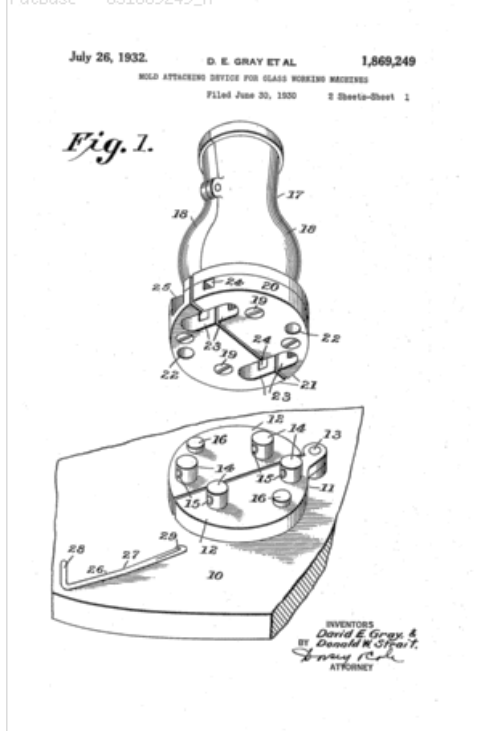
International (IPC 1-7): C03B9/353

CPC: C03B9/353 C03B9/3532

European: C03B9/353 C03B9/353A

US: 65/361

PatBase - US1869249_A



Family:

Publication number	Publication date	Application number	Application date
US1869249 A	19320726	US19300464980	19300630

Priority:

US19300464980 19300630

Probable Assignee: CORNING INC

Assignee(s): (std): CORNING GLASS WORKS ; CORNING INC

Inventor(s): (std): STRAIT DONALD W ; GRAY DAVID E

61) Family number: 32629840 (EP1627856B1)

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Title: Cooling device for the halves of a blow mould of a glass forming machine

Abstract: Cooling system for the mold halves (2) of a glass molding machine comprises a telescopic air supply pipe (3) whose ends are mounted in ball-and-socket joints (6, 7). The upper end of the pipe connects with a cooling chamber (10) which forms part of a mold holder.

Classifications:

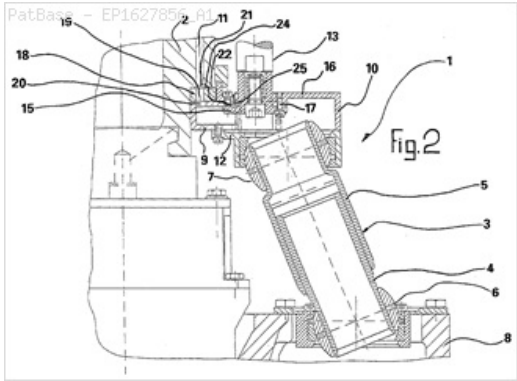
International (IPC 8-9): C03B9/347 C03B9/353

C03B9/38 (Advanced/Invention);

C03B9/00 (Core/Invention)

CPC: C03B9/353 C03B9/38 C03B9/3816 C03B9/3875

European: C03B9/353 C03B9/38 C03B9/38D C03B9/38J



Family:

Publication number	Publication date	Application number	Application date
AT556035 E	20120515	AT20050013074T	20050617
DE102004040338 A1	20060316	DE200410040338	20040820
DE102004040338 B4	20071206	DE200410040338	20040820
DE502005012679 D1	20120621	DE200550012679T	20050617
EP1627856 A1	20060222	EP20050013074	20050617
EP1627856 B1	20120502	EP20050013074	20050617

Priority:

DE200410040338 20040820 EP20050013074 20050617

Probable Assignee: GPS GLASPROD SERV GMBH

Assignee(s): (std): GPS GLASPROD SERV GMBH

Assignee(s): GPS GLASPRODUKTIONS SERVICE GMBH

Inventor(s): (std): EMRATH NORBERT ; BLASKOWITZ WOLFGANG

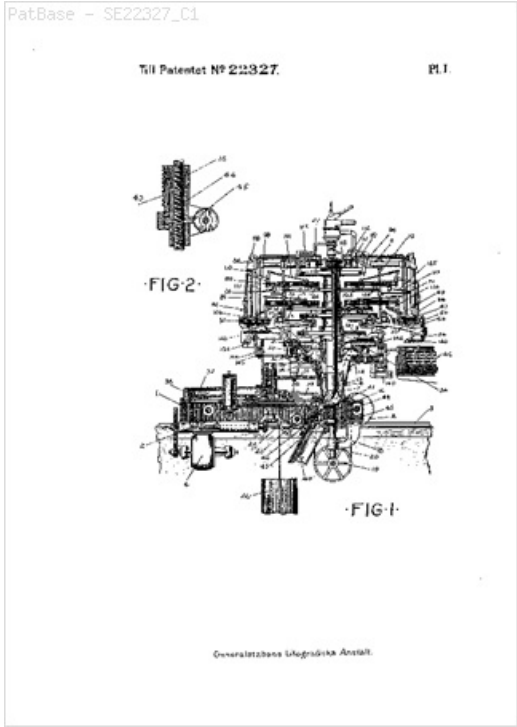
Agent(s): PATENTANWAELTE SPALTHOFF U LELGEMANN; LELGEMANN KARL HEINZ

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

62) Family number: 44472908 (SE22327 C1)

© PatBase

Classifications:
International (IPC 1-7): C03B9/14
CPC: C03B9/14 C03B9/353
European: C03B9/14 C03B9/353



Family:

Publication number	Publication date	Application number	Application date
SE22327 C1	00000000		00000000

63) Family number: 3823927 (US4388096A)

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Title: Apparatus and process for the alignment of mechanisms and/or arms for the molds changes in machines for the manufacture of glassware, thermoplastic articles or similars

Abstract: A mold gauging device and a method for gauging a mold is disclosed wherien a false mold having vertically

adjustable gauges therein is positioned between a mold hinge in substitution for a mold to be set therein and with other alignment means placed on the false mold measurements are made of the mold to be set therein to its other cooperating mechanisms, which mechanisms are then adjusted to their proper positions.

Classifications:

International (IPC 8-9): C03B9/16 C03B9/353

C03B9/40 (Advanced/Invention);

C03B9/00 (Core/Invention)

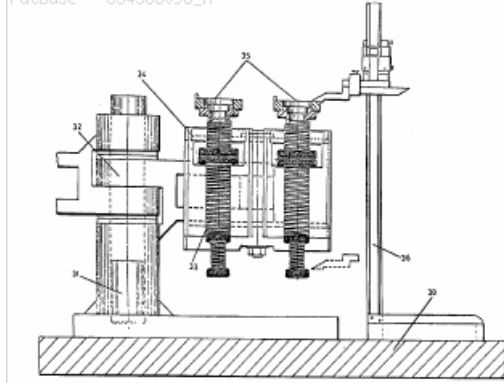
International (IPC 1-7): C03B9/197

CPC: C03B9/165 C03B9/353 C03B9/3532 C03B9/40

European: C03B9/16B C03B9/353 C03B9/353A C03B9/40

US: 65/158 65/171 65/172 65/29 65/29.12

PatBase - US4388096_A



Family:

Publication number	Publication date	Application number	Application date
US4388096 A	19830614	US19810330884	19811215

Priority:

US19810330884 19811215

Probable Assignee: VITRO TEC FIDEICOMISO

Assignee(s): (std): VITRO TEC FIDEICOMISO

Assignee(s): VITRO TEC FIDEICOMISO DOMICILED AT FRAMBOYANES

Inventor(s): (std): BOSCHI ALIDE B

64) Family number: 7732934 (US4200449A)

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Title: Apparatus for blow molding hollow glassware

Abstract: A multi-section blow molding machine for the manufacture of hollow glassware has in each section a parison mold for each pair of blow molds. The blow molds are disposed below and on opposite sides of the center of oscillation of a neck ring arm carrying rotatable neck rings and arranged so that the mold or molds on one side are open when those on the other side are closed. The molds and neck ring arm are interconnected to oscillate together in opposite directions between lockable positions 180 DEG apart. The parison mold and associated feed and plunger means are movable in and out of operative position below and above the neck ring arm respectively, and operate in timed relation thereto. The open blow molds are spray cooled during the blowing cycle as well as during oscillation of the neck ring arm between its locked positions. In the closed blow molds, the blowing is continued simultaneously with the spray cooling to further cool the molded articles prior to release to a take-out conveyor.

Classifications:

International (IPC 8-9): C03B7/16 C03B9/193 C03B9/195

C03B9/295 C03B9/34 C03B9/353 C03B9/36 C03B9/38

C03B9/40 (Advanced/Invention);

C03B7/00 C03B9/00 (Core/Invention)

International (IPC 1-7): C03B9/00 C03B9/14 C03B9/193 C03B9/325

CPC: C03B9/1932 C03B9/1934 C03B9/1936 C03B9/1955 C03B9/295

C03B9/342 C03B9/353 C03B9/3532 C03B9/3618 C03B9/3627

C03B9/3636 C03B9/3645 C03B9/3672 C03B7/16 C03B9/195

C03B9/3681 C03B9/3816 C03B9/3825 C03B9/3858 C03B9/3875

C03B9/3891 C03B9/40 C03B9/3808

European: C03B7/16 C03B9/193B C03B9/193B1 C03B9/193B2

C03B9/195 C03B9/195B C03B9/295 C03B9/34B C03B9/353

C03B9/353A C03B9/36 C03B9/36C C03B9/36D C03B9/36D2

C03B9/36E C03B9/36G2 C03B9/36G2B C03B9/38 C03B9/38B

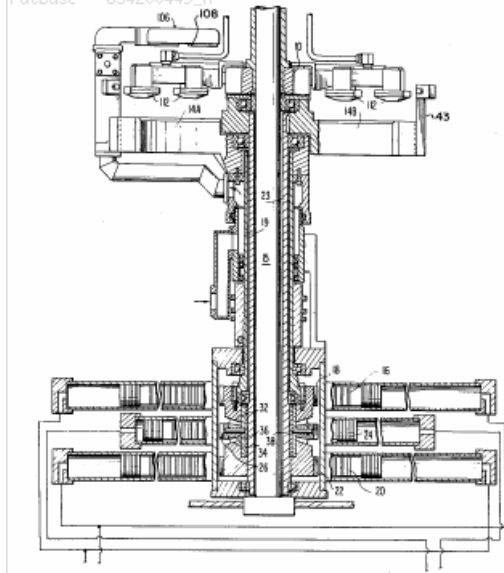
C03B9/38D C03B9/38E C03B9/38G2B C03B9/38J C03B9/38V

C03B9/40

US: 65/229 65/231 65/235 65/240 65/241 65/261 65/264 65/266

65/300 65/79

PatBase - US4200449_A



Family:

Publication number	Publication date	Application number	Application date
US4200449 A	19800429	US19780898080	19780420
US4284424 A	19810818	US19790099545	19791203
US4339258 A	19820713	US19790107850	19791228

Priority:

US19780898080 19780420

US19790099545 19791203

US19790107850 19791228

Probable Assignee: VITRO TEC FIDEICOMISO

Assignee(s): (std): INVEST FIC FIDEICOMISO ; VITRO TEC FIDEICOMISO

Assignee(s): VITRO TEC FIDEICOMISO A CORP ; VITRO TEC FIDEICOMISO APARTADO POSTAL 2867 MONTE RR ; INVESTIGACION FIC FIDEICOMISO

65) Family number: 37013934 (GB191212105A)

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Title: An Improvement in or in connection with Means for Opening and Closing the Ring Moulds of Glass Bottle Blowing Machines.

Abstract: 12,105. Clegg, A. E. May 22. Blowing.-Relates to the neck moulds of bottle-making machines. The half-moulds $a<1>$, $a<2>$, which may be formed internally so as to indent the bottle neck, are mounted on the ends of arms $b<1>$, $b<2>$ carried by vertical spindles $c<1>$, $c<2>$. Short levers $f<1>$, $f<2>$ are also mounted on the spindles $c<1>$, $c<2>$, and are connected by a rod n . A rod o connects the lever $f<2>$ with a centrally-pivoted operating-handle h , by means of which the moulds a' , $a<2>$ can be moved simultaneously. The arm $f<1>$ is shorter than the arm $f<2>$, so that the mould a' is swung more to the side than the mould $a<2>$. In a modification, the half $a<2>$ is fixed, the handle h operating the front half $a<1>$ only. Specification 23,422/11 is referred to.

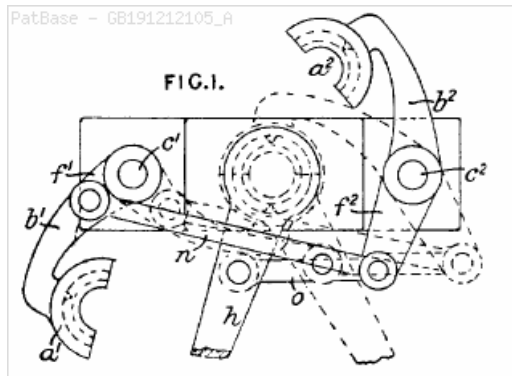
Classifications:

International (IPC 8-9): C03B9/353 (Advanced/Invention);

C03B9/00 (Core/Invention)

CPC: C03B9/353

European: C03B9/353

**Family:**

Publication number	Publication date	Application number	Application date
GB191212105 A	19120711		00000000

Priority:

19120522

Probable Assignee:

CLEGG ALBERT EDWARD

Assignee(s): (std):

CLEGG ALBERT EDWARD

Assignee(s):

ALBERT EDWARD CLEGG

Inventor(s): (std):

CLEGG ALBERT EDWARD

Inventor(s):

ALBERT EDWARD CLEGG

66) Family number: 3886956 (FR2458516A)

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Title: AUTOMATIC MFR. OF HOLLOW GLASSWARE - WHERE BLOWPIPE CAN BE ALIGNED WITH AND DRIVEN INTO, PARISON MOULD TO PICK UP AND REMOVE PARISON

Abstract: On a machine bed is a vertical tube (I) which can be swivelled and locked in a desired angular position; and on (I) is a tube (II), which can be rotated on a horizontal axis and locked in a desired angular position. (II) supports a carrier for tools which can be aligned with a mould contg. a parison held by suction. On the axis of the carrier is a blowing tube, which is driven by a piston so it enters the parison. The mould is then opened and the tubes are moved to a desired position where the parison is blown to its desired shape.

Classifications:

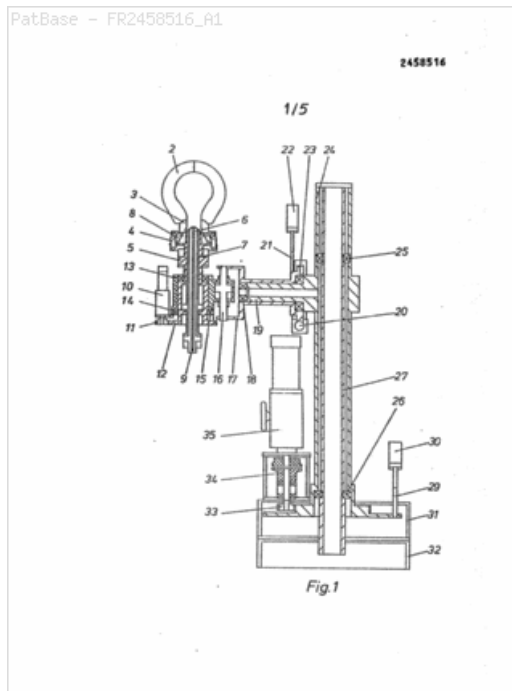
International (IPC 8-9): C03B9/22 C03B9/353 (Advanced/Invention);

C03B9/00 (Core/Invention)

International (IPC 1-7): C03B9/20

CPC: C03B9/225 C03B9/353

European: C03B9/22B C03B9/353



Family:

Publication number	Publication date	Application number	Application date
FR2458516 A1	19810102	FR19800012200	19800602

Priority:

DE19792923210 19790608

Probable Assignee: JENAER GLASWERK SCHOTT AND GEN**Assignee(s):** (std): JENAER GLASWERK SCHOTT AND GEN**Assignee(s):** JENAER GLASWERK SCHOTT GEN**Inventor(s):** (std): GUNTNER FRANZ**Inventor(s):** FRANZ GUNTNER**67) Family number: 57261989** (FR3002223B)

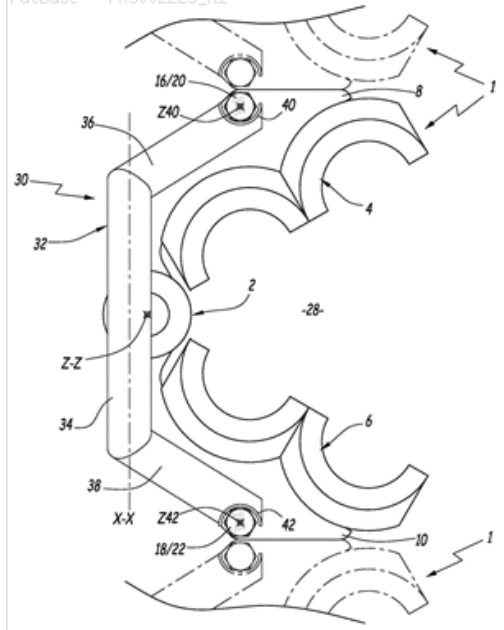
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Title: DISPOSITIF DE CONDAMNATION EN CONFIGURATION OUVERTE DES MACHOIRES D'UN MECANISME A CHARNIERE

Abstract: The device comprises a member (30) for locking jaws (4, 6) in an open configuration, where the locking member is: adapted to cooperate with a separate portion (20, 22) of the jaws by complementarity of shapes of each jaw so as to mechanically tilt the opposing jaws towards each other about an axis (Z-Z) of a hinge (2); and arranged outside a free space between the jaws. The locking member is adapted to cooperate with the parts of each of the jaws, which protrude from the rest of the jaw in a direction parallel to the axis of the hinge. The device comprises a member (30) for locking jaws (4, 6) in an open configuration, where the locking member is: adapted to cooperate with a separate portion (20, 22) of the jaws by complementarity of shapes of each jaw so as to mechanically tilt the opposing jaws towards each other about an axis (Z-Z) of a hinge (2); and arranged outside a free space between the jaws. The locking member is adapted to cooperate with the parts of each of the jaws, which protrude from the rest of the jaw in a direction parallel to the axis of the hinge. The locking member is adapted to cooperate with the portions of each of the jaws, which belongs to units such as bolts of a fixing equipment of the jaw, on arms of the jaw, and articulated by the hinge on the arm of the other jaw. The locking member is formed to bypass the area where the free space between the jaws leads to the outside according to the direction of the hinge axis of the hinge when the locking member cooperates with the respective separate parts of the jaws in the opened configuration; and two final sections. A complementary support unit includes a tube that is centered on an axis approximately orthogonal with the longitudinal direction of the current part, where an interior face of the tube is dimensioned in diameter to girdle a portion of the separate part of the jaw when the locking member cooperates with the respective separate parts of the jaws in open configuration. A portion of the tube of each complementary support unit is open in a direction opposed to the other complementary support unit. The current part admits a symmetry plane that is perpendicular to its longitudinal direction. The final sections are symmetrical to one another. The current part, the final sections and the complementary support units are rigidly connected to the other elements by a welding process.

Classifications:**International (IPC 8-9):** C03B9/353 (Advanced/Invention)**CPC:** C03B9/353 C03B9/3532

PatBase - FR3002223_A1

**Family:**

Publication number	Publication date	Application number	Application date
FR3002223 A1	20140822	FR20130051450	20130220
FR3002223 B1	20160715	FR20130051450	20130220

Priority:

FR20130051450 20130220

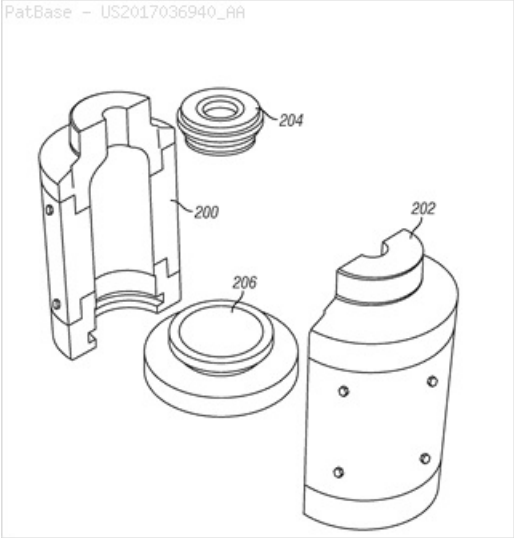
Probable Assignee: MECANIC SUD SERVICE M 2 S**Assignee(s):** (std): MECANIC SUD SERVICE M 2 S**Inventor(s):** (std): SLIWINSKI VINCENT**Inventor(s):** VINCENT SLIWINSKI**Agent(s):** CABINET LAVOIX LYON

Title: MODULAR MOLD ASSEMBLY AND METHOD TO USE SAME

Abstract: A modular mold assembly comprising two mold halves wherein each mold half comprises separable and interchangeable components that allow for the production of a plurality of unique glass containers is disclosed. A new method of manufacturing customized glass containers which utilizes such modular mold assembly is also disclosed.

Classifications:

International (IPC 8-9): C03B9/347 (Advanced/Invention)
CPC: C03B9/347 C03B9/342 C03B9/344 C03B9/353
US: 1/1 65/82



Family:

Publication number	Publication date	Application number	Application date
US2017036940 AA	20170209	US20160230152	20160805

Priority:

US20150201339P 20150805 US20160230152 20160805

Probable Assignee: SHARP ELLIOT AUSTIN DALE

Assignee(s): (std): SHARP ELLIOT AUSTIN DALE ; SHARP JOEL DAVID

Inventor(s): (std): SHARP ELLIOT AUSTIN DALE ; SHARP JOEL DAVID