

411.1/1



ALL. 21

MINISTERO DELL'INDUSTRIA DEL COMMERCIO E DELL'ARTIGIANATO

D. G. P. L. - UFFICIO CENTRALE BREVETTI

BREVETTO PER INVENZIONE INDUSTRIALE

1207057

Il presente brevetto è stato concesso per l'invenzione oggetto della domanda sotto specificata:

N. DOMANDA	CLASSE
5712031	

DATA	CLASSE	DATA	NUMERO BREVETTO
01	01	210042002	870000000

TITOLARE BOTTERO S.P.A.
4 ROATA CANALE CUVED

TITOLO IMPIANTO DI DISTRIBUZIONE DI GOCCE
DI VETRO IN APPOSITI STAMPI PER LA
REALIZZAZIONE DI MANIFATTI IN VETRO

INV. DEL. LEONARDO BRIVATO



17 MAG 1939

Form. II

Δ11. 1/2



Europäisches Patentamt
European Patent Office
Office européen des brevets



Publication number:

0 353 322 B1

12

EUROPEAN PATENT SPECIFICATION

45 Date of publication of patent specification: 24.11.93 51 Int. Cl.5: C03B 7/16

21 Application number: 88112566.0

22 Date of filing: 02.08.88

54 A system for distributing small quantities of glass into suitable moulds for the production of glass product.

43 Date of publication of application:
07.02.90 Bulletin 90/06

45 Publication of the grant of the patent:
24.11.93 Bulletin 93/47

64 Designated Contracting States:
AT BE CH DE ES FR GB GR LI LU NL SE

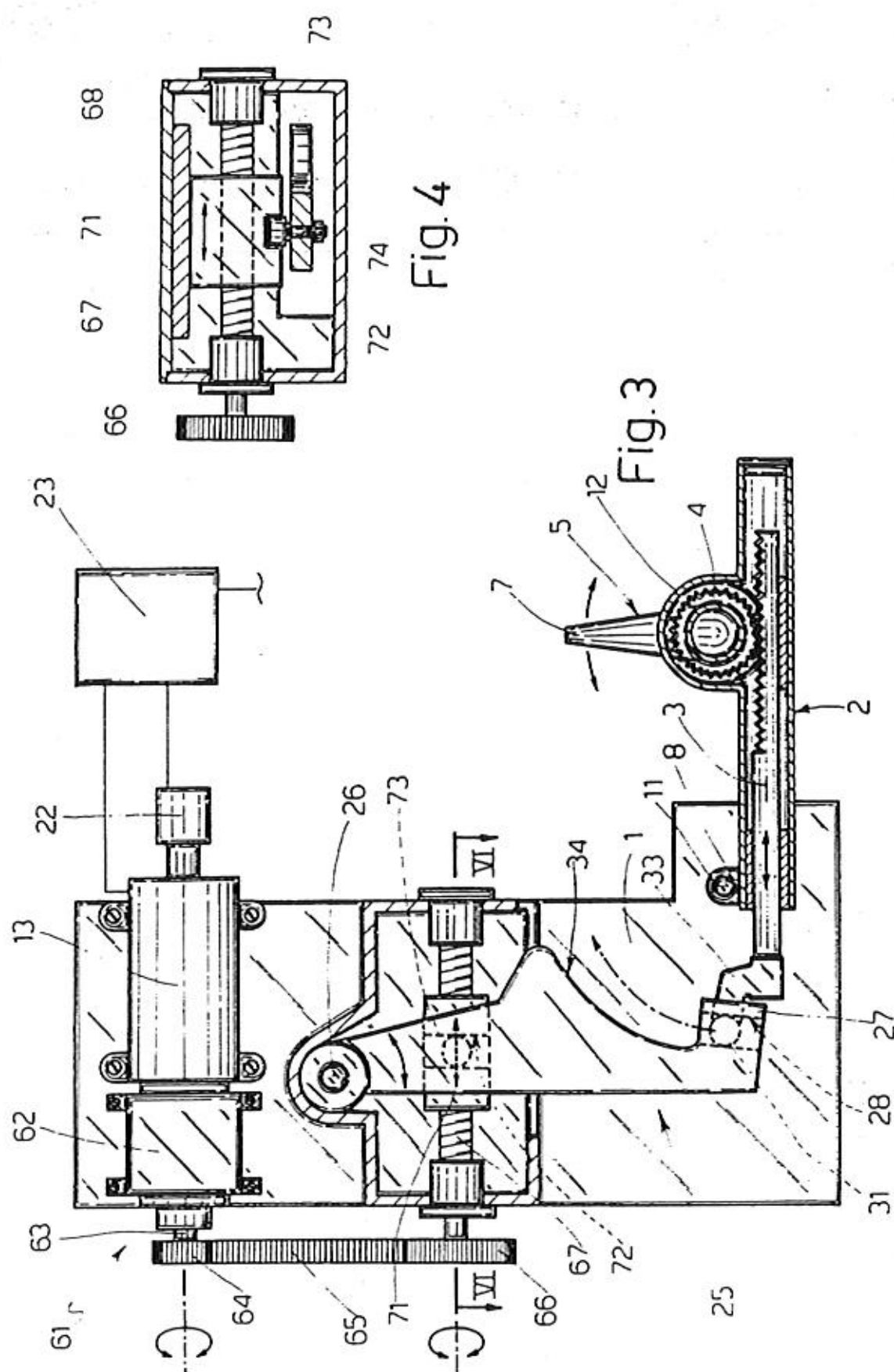
55 References cited:
EP-A- 0 202 116
US-A- 3 721 544
US-A- 3 871 858

73 Proprietor: BOTTERO S.p.A.
Via Genova, 82
I-12010 Roata Canale (Cuneo)(IT)

72 Inventor: Ghinamo, Leonardo
Via Cuneo, 37
I-12012 Boves(IT)

74 Representative: Jorio, Paolo et al
STUDIO TORTA Società Semplice
Via Viotti 9
I-10121 Torino (IT)

Note: Within nine months from the publication of the mention of the grant of the European patent, any person may give notice to the European Patent Office of opposition to the European patent granted. Notice of opposition shall be filed in a written reasoned statement. It shall not be deemed to have been filed until the opposition fee has been paid (Art. 99(1) European patent convention).



Al. 1/3



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) EP 0 490 294 B1

(12) EUROPEAN PATENT SPECIFICATION

(45) Date of publication and mention
of the grant of the patent:
05.06.1996 Bulletin 1996/23

(51) Int. Cl.⁶: C03B 7/10

(21) Application number: 91120982.3

(22) Date of filing: 06.12.1991

(54) Device for cutting beads of extrusion material, such as molten glass, for the feeder of a manufacturing machine

Vorrichtung zum Schneiden von Tropfen von Extrusionsmaterial, wie geschmolzenem Glas, für den Speiser einer Fertigungsmaschine

Dispositif pour couper des gouttes de matériau d'extrusion, comme de verre fondu, pour le distributeur d'une machine de fabrication

(84) Designated Contracting States:
AT BE CH DE ES FR GB LI NL SE

(30) Priority: 11.12.1990 IT 6799190

(43) Date of publication of application:
17.06.1992 Bulletin 1992/25

(73) Proprietor: BOTTERO S.p.A.
I-12100 Cuneo (IT)

(72) Inventors:
• Simondi, Carlo
I-12100 Cuneo (IT)

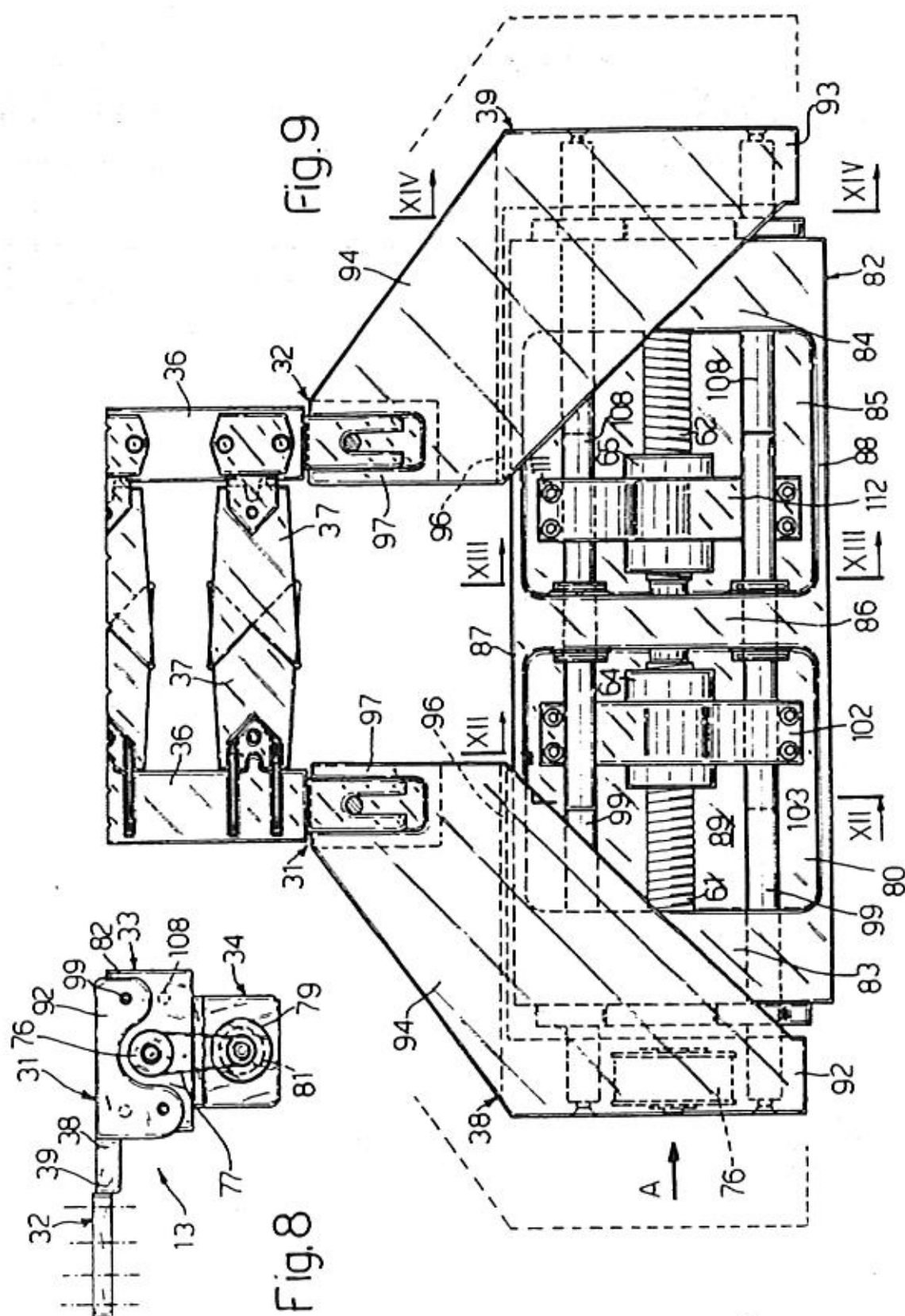
• Giraudo, Vittore
I-12100 Cuneo (IT)
• Basso, Giampiero
I-12081 Beinette (IT)

(74) Representative: Cerbaro, Elena et al
c/o Studio Torta, Via Viotti 9
I-10121 Torino (IT)


(56) References cited:
EP-A- 0 164 902 EP-A- 0 202 809
US-A- 4 444 079

EP 0 490 294 B1

Note: Within nine months from the publication of the mention of the grant of the European patent, any person may give notice to the European Patent Office of opposition to the European patent granted. Notice of opposition shall be filed in a written reasoned statement. It shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).



Att. 1/2

(19)  **Europäisches Patentamt**
European Patent Office
Office européen des brevets



(11) **EP 0 603 771 B1**

(12) **EUROPEAN PATENT SPECIFICATION**

(45) Date of publication and mention
of the grant of the patent:
02.05.1997 Bulletin 1997/18

(51) Int Cl.⁶ **C03B 7/086**

(21) Application number: **93120456.4**

(22) Date of filing: **17.12.1993**

(54) **Unit for feeding molten glass to a glassware forming machine**

Vorrichtung zum Zuführen von geschmolzenem Glas zu einer Maschine zum Herstellen von Glasgegenständen

Unité pour la livraison de verre fondu à une machine de fabrication d'objets en verre

(84) Designated Contracting States:
AT BE CH DE ES FR GB LI NL

(30) Priority: **22.12.1992 IT TO921033**

(43) Date of publication of application:
29.06.1994 Bulletin 1994/26

(73) Proprietor: **BOTTERO S.p.A.**
I-12010 Cuneo (IT)

(72) Inventors:
• **Simondi, Carlo**
I-12100 Cuneo (IT)

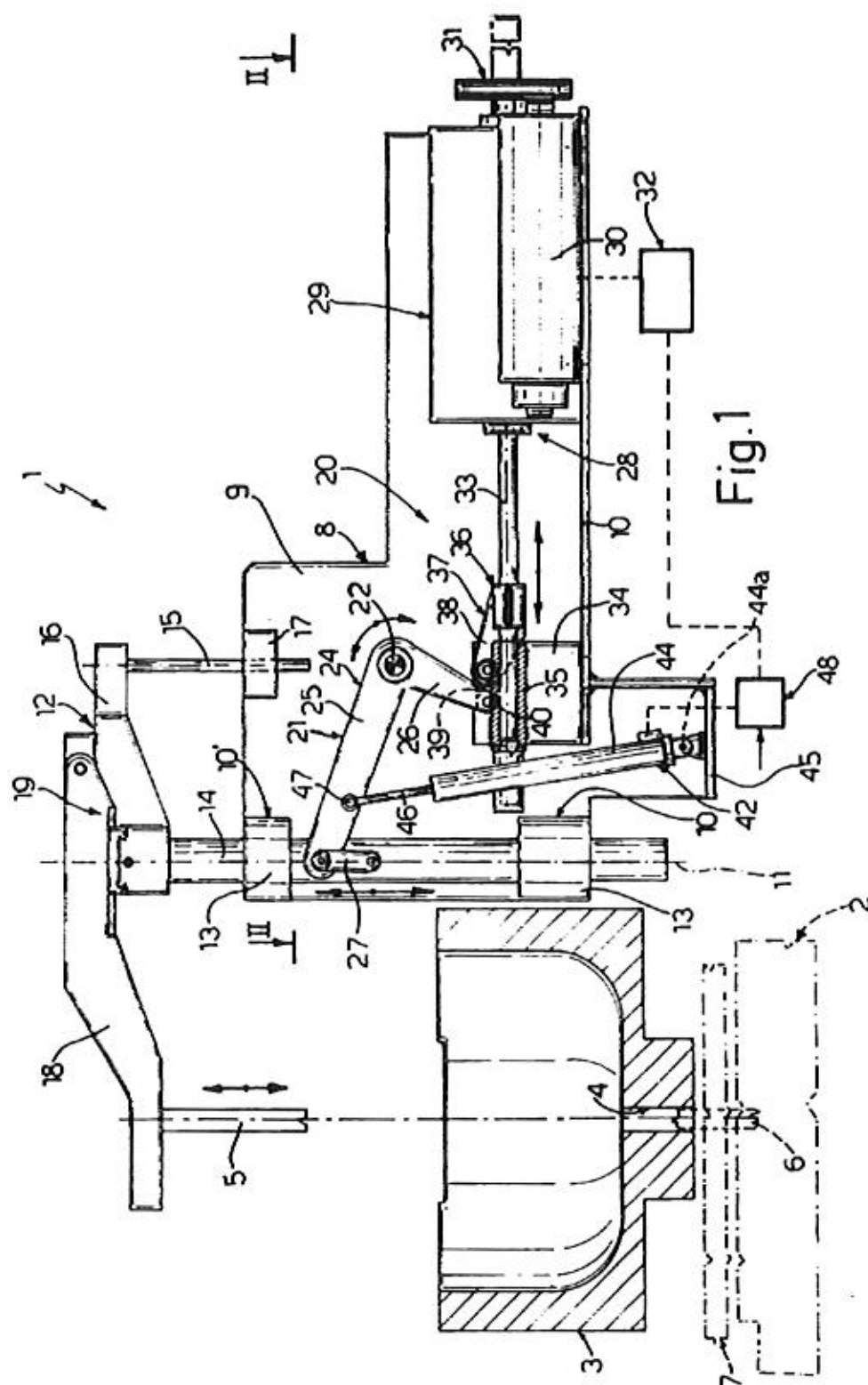
• **Giraud, Vittore**
I-12100 Cuneo (IT)
• **Basso, Gianpiero**
I-12081 Beinette (IT)

(74) Representative: **Jorio, Paolo, Dr. Ing. et al**
Studio Torta S.r.l.,
Via Viotti, 9
10121 Torino (IT)

(56) References cited:
US-A- 2 749 665

EP 0 603 771 B1

Note: Within nine months from the publication of the mention of the grant of the European patent, any person may give notice to the European Patent Office of opposition to the European patent granted. Notice of opposition shall be filed in a written reasoned statement. It shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).



Δ11. 1/5



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) Publication number:

0 668 248 A2

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 95102255.7

(51) Int. Cl.⁶ **C03B 7/00, C03B 9/41,
C03B 7/086, C03B 7/10,
C03B 7/16**

(22) Date of filing: 17.02.95

(30) Priority: 18.02.94 IT TO940100

(43) Date of publication of application:
23.08.95 Bulletin 95/34

(64) Designated Contracting States:
AT BE DE ES FR GB

(71) Applicant: **BOTTERO S.p.A.**
Via Genova, 82
I-12100 Cuneo (IT)

(72) Inventor: **Sesia, Carlo**
Via Madonna del Campo, 27
I-12011 Borgo San Dalmazzo (IT)

Inventor: **Tealdi, Alessandro**
Via Bonelli, 12
I-12089 Villanova Mondovì (IT)
Inventor: **Viada, Bruno**
Via Piozzo, 112
I-12010 Madonna Delle Grazie (IT)
Inventor: **Giraud, Vittore**
Via Passatore, 224
I-12100 Cuneo (IT)

(74) Representative: **Jorio, Paolo et al**
Studio Torta,
Via Viotti, 9
I-10121 Torino (IT)

(54) Plant for forming glass articles.

(57) A plant (1) for forming glass articles in which an extrusion plunger (13) and a shearing unit (16) are piloted by a control unit (39a) to form a plurality of first glass gobs (3) and a plurality of second glass gobs (4); the first gobs (3) and the second gobs (4) differ from each other at least in their respective weights and are advanced by a gob distributor (8) to respective forming sections (6) (7) which form simultaneously first continuous orderly successions (5a) and second continuous orderly successions (5b) of first glass articles (1a) and second glass articles (1b) respectively which differ from each other.

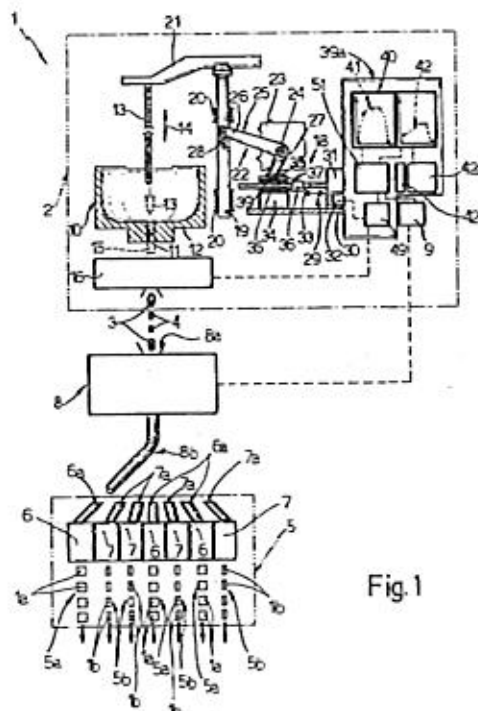


Fig. 1

EP 0 668 248 A2



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) EP 0 712 812 B1

Δ11.1/6

(12) EUROPEAN PATENT SPECIFICATION

(45) Date of publication and mention
of the grant of the patent:
17.05.2000 Bulletin 2000/20

(51) Int Cl.7: C03B 7/10

(21) Application number: 95117793.0

(22) Date of filing: 10.11.1995

(54) Cutting unit, particularly for forming molten glass gobbs

Schneidevorrichtung, insbesondere für geschmolzene Glastropfen

Appareil de coupe, en particulier pour paraisons en verre

(84) Designated Contracting States:
AT BE CH DE ES FR GB LI NL

(30) Priority: 18.11.1994 IT TO940927

(43) Date of publication of application:
22.05.1996 Bulletin 1996/21

(73) Proprietor: BOTTERO S.p.A.
12100 Roata Canale (Cuneo) (IT)

(72) Inventors:
• Giraudo, Vittore
I-12100 Cuneo (IT)

• Viada, Bruno
I-12010 Madonna Delle Grazie (IT)
• Tealdi, Alessandro
I-12089 Villanova Mondovi (IT)

(74) Representative: Boggio, Luigi et al
STUDIO TORTA S.r.l.,
Via Viotti, 9
10121 Torino (IT)

(56) References cited:
EP-A- 0 490 294

Note: Within nine months from the publication of the mention of the grant of the European patent, any person may give notice to the European Patent Office of opposition to the European patent granted. Notice of opposition shall be filed in a written reasoned statement. It shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

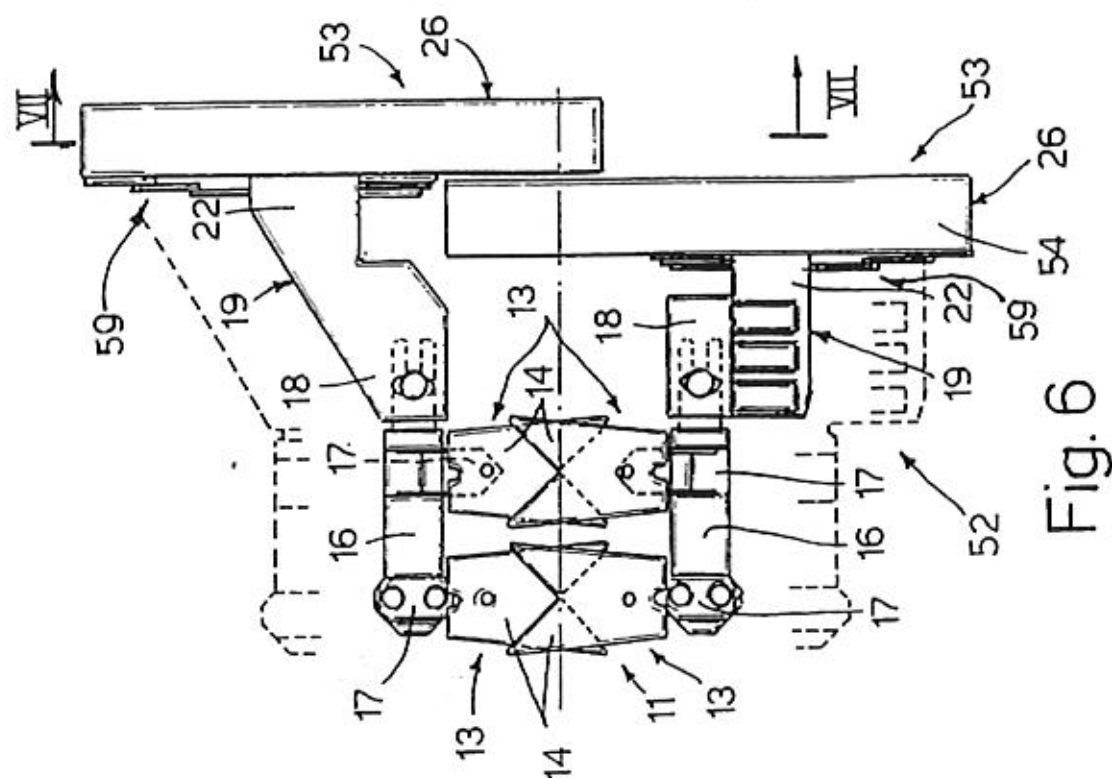


Fig. 6

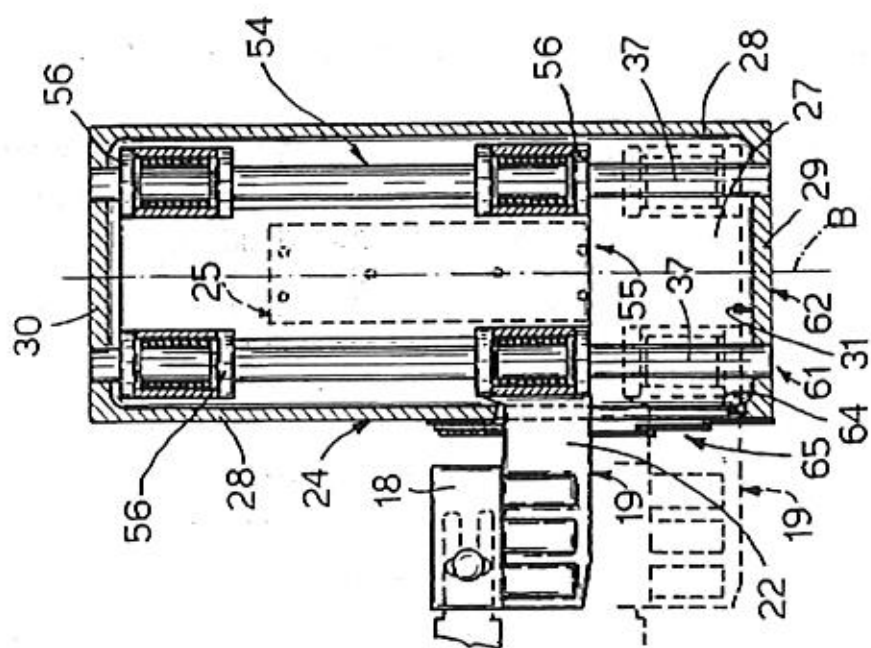


Fig. 10

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 0 779 248 A1

A11.1/2

(12)

EUROPEAN PATENT APPLICATION

(43) Date of publication:

18.06.1997 Bulletin 1997/25

(51) Int. Cl.⁶: C03B 7/16, C03B 9/41

(21) Application number: 96119388.4

(22) Date of filing: 11.12.1996

(84) Designated Contracting States:

DE ES FR GB

(30) Priority: 12.12.1995 IT TO950997

(71) Applicant: BOTTERO S.p.A.

I-12010 Cuneo (IT)

(72) Inventors:

- Simondi, Carlo
- 12100 Cuneo (IT)

• Tealdi, Alessandro

12089 Villanova Mondovì (IT)

• Viada, Bruno

12010 Madonna Delle Grazie (IT)

• Giraudo, Vittore

12100 Cuneo (IT)

(74) Representative: Jorio, Paolo, Dr. Ing. et al

Studio Torta S.r.l.,

Via Viotti, 9

10121 Torino (IT)

(54) Glass gob distributor

(57) A glass gob distributor (1) wherein at least one gob distributing body (8) is connected to a fixed frame (2) so as to rotate about a respective hinge axis (11), and is moved in relation to the frame (2) by an actuating assembly (14) for positioning the distributing body (8) in a number of angular gob feed positions; the actuating

assembly (14) having a linear electric motor (44) controlled by an electronic control unit (48), and the translating member (45) of which is connected positively to the distributing body (8) by a linear-rotary motion converting device (16).

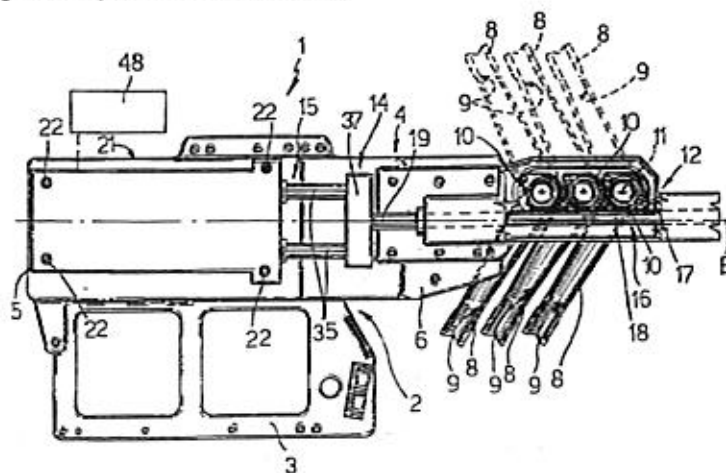


Fig. 2

EP 0 779 248 A1

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 0 779 250 A1

A11. 1/8

(12)

EUROPEAN PATENT APPLICATION

(43) Date of publication:

18.06.1997 Bulletin 1997/25

(51) Int. Cl.⁶: C03B 9/453

(21) Application number: 96119390.0

(22) Date of filing: 11.12.1996

(84) Designated Contracting States:

DE ES FR GB

(30) Priority: 12.12.1995 IT T0950995

(71) Applicant: BOTTERO S.p.A.

I-12010 Cuneo (IT)

(72) Inventors:

- Basso, Gianpiero
- 12081 Beinette (IT)

• Giraudo, Vittore

12100 Cuneo (IT)

• Simondi, Carlo

12100 Cuneo (IT)

(74) Representative: Jorio, Paolo, Dr. Ing. et al

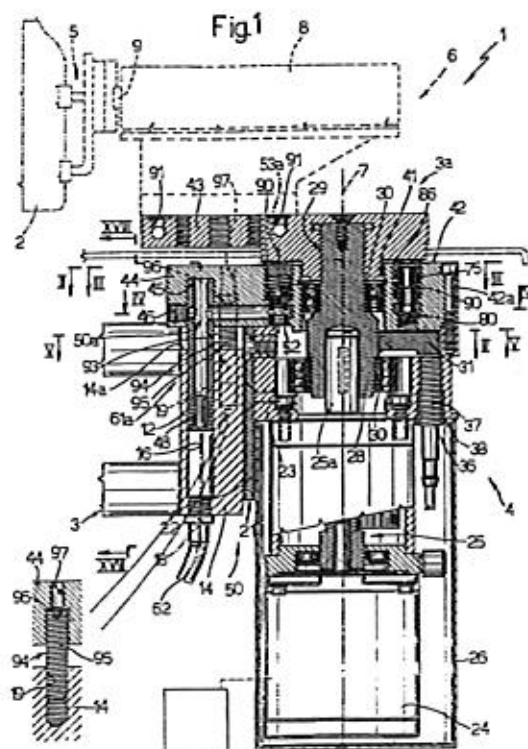
Studio Torta S.r.l.,

Via Viotti, 9

10121 Torino (IT)

(54) Actuating assembly for moving glass articles

(57) An actuating assembly (1) for moving glass articles (2), wherein a gripping member (5) is moved by an actuating device (3a) connected to a supporting body (3) and having a pneumatic linear actuator (6) and an angular actuator (4) for rotating the linear actuator (6) about a rotation axis (7) and in relation to the supporting body (3); the linear actuator (6) is connectable to a compressed air source by means of a pneumatic circuit (61) having a fast-fit connecting device (61a) for pneumatically connecting the linear actuator (6) to the compressed air source simultaneously with the connection of the actuating device (3a) to the supporting body (3).



EP 0 779 250 A1