



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 1 413 704 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
09.02.2005 Bulletin 2005/06

(51) Int Cl.7: **E06B 3/673, G05B 15/00**

(43) Date of publication A2:
28.04.2004 Bulletin 2004/18

(21) Application number: **03024514.6**

(22) Date of filing: **24.10.2003**

(84) Designated Contracting States:
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HU IE IT LI LU MC NL PT RO SE SI SK TR**
Designated Extension States:
AL LT LV MK

(71) Applicant: **FOR.EL. BASE di VIANELLO
FORTUNATO & C. S.n.c.**
31056 Vallio di Roncade (Treviso) (IT)

(72) Inventor: **Vianello, Fortunato**
31056 Vallio di Roncade (Treviso) (IT)

(30) Priority: **25.10.2002 IT TV20020122**

(54) **Aided managerial procedure for insulating glass production**

(57) SUMMARY

This claim concerns an aided managerial procedure especially for the production of insulating glass (panels) that coordinates many work stations, called stations, and includes, for example only and without limiting the types and number of stations: one or more machines for cutting panes of glass, whether monolithic, laminated or armoured glass; one machine to form the spacer frame

from a straight bar and obtain - by bending and/or calendering - a closed frame; a machine to fill the hollow part of the frame with hygroscopic material; a machine to apply the sealant to the sides of the spacer frame; a line (washing, assembly, sealing and so on) for the production of insulating glass.

One essential feature of the system is the special way (explained in detail in the description) to assist the operators who load and unload the machines.

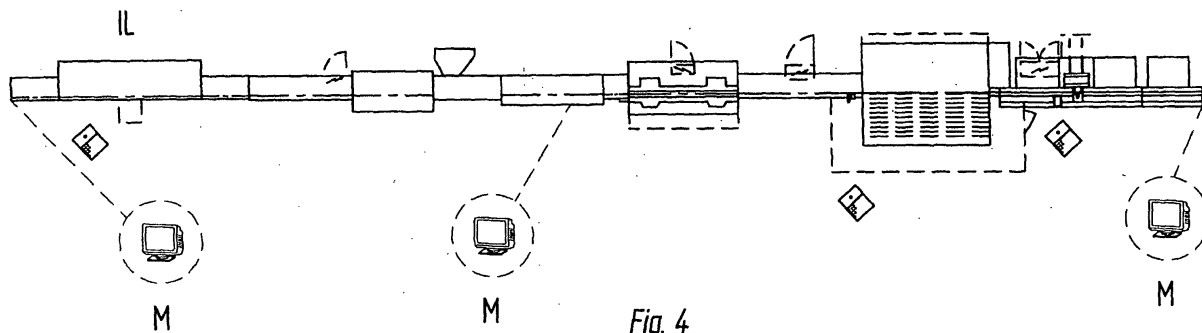


Fig. 4

EP 1 413 704 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 03 02 4514

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
D,A	EP 0 252 066 A (LISEC PETER) 7 January 1988 (1988-01-07) * the whole document *	1	E06B3/673 G05B15/00
A	US 6 400 997 B1 (RAPP III ROY W) 4 June 2002 (2002-06-04) * column 1, line 56 - column 3, line 64 * * column 9, line 56 - column 16, line 59; figures 1,2 *	1-9	
A	US 4 821 197 A (BAYER JAMES J ET AL) 11 April 1989 (1989-04-11) * column 1, line 6 - column 4, line 66 * * column 5, line 33 - line 44 * * figures 1,2 *	1,3-9	
A	GB 2 265 473 A (NAGLE MICHAEL BRENDAN) 29 September 1993 (1993-09-29) * page 5, line 12 - page 11, line 14; figures *	1,3-9	
A	US 6 434 264 B1 (ASAR MADHU PURUSHOTUM) 13 August 2002 (2002-08-13) * column 3, line 26 - column 5, line 43 * * column 6, line 31 - line 62 * * column 9, line 58 - column 12, line 9 * * figures 1,2 *	2	TECHNICAL FIELDS SEARCHED (Int.Cl.7) E06B G05B
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 23 December 2004	Examiner Depoorter, F
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EPO FORM 1503, 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 03 02 4514

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

23-12-2004

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0252066 A	07-01-1988	EP 0252066 A1	07-01-1988
		JP 63002840 A	07-01-1988
US 6400997 B1	04-06-2002	AU 2473301 A	16-07-2001
		EP 1247240 A1	09-10-2002
		WO 0150405 A1	12-07-2001
		US 2004117233 A1	17-06-2004
US 4821197 A	11-04-1989	AU 597193 B1	24-05-1990
		CA 1299748 C	28-04-1992
		JP 63288634 A	25-11-1988
		US 5029095 A	02-07-1991
GB 2265473 A	29-09-1993	BE 1005228 A6	01-06-1993
		IE 922936 A1	06-10-1993
US 6434264 B1	13-08-2002	NONE	