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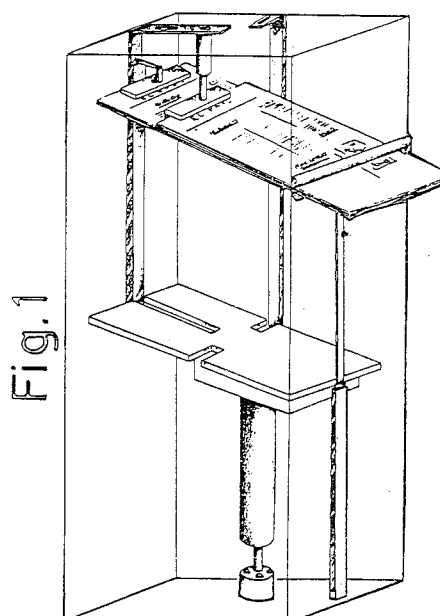
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(54) **SYSTEM OF APPARATUS AND DEVICE FOR DISPENSING NEWSPAPERS, MAGAZINES AND ANY TYPE OF PUBLICATIONS.**

(57) Apparatus automatically actuated by introducing coins, and whose characteristics make it appropriate for installation in any place where it is considered useful, such as premises, kiosks or in the open air. It is provided with a lifting system (8), a board (10) with an inclination and predetermined grooves, vertical adjustable bars (15) and two arms (13, 14) for holding and entraining the issues. It is adapted for any size of newspapers, without taking into account the thickness of the newspapers, avoids displacement or alterations which deteriorate the sheets. It may be adapted to one, two, three cabins, etc., large or small, with dispensing outlets of the copies at the top part or at the bottom part, and easy replenishment of the same.



The present inventions refers, as its own name indicates, to a dispenser unit for newspapers, magazines and all types of publications, which includes a device that allows its operation by means of introducing coins, whose characteristics make it suitable for installation in any pre-determined place, where its service is considered useful, thus providing a specific publication at any time, by means of a simple operation.

The present invention covers the technical void existing due to the total absence of public devices for obtaining all types of publications, that can be installed inside any building, such as cafeterias, bars, hotels, train and bus stations, airports, hospitals, waiting rooms, gas stations, large companies and others, occupying a minimum space, and its outdoor installation, either attached to existing newspaper stands or in any other outdoor area is of great importance.

The advantages this invention represents, both on a public as well as a dispenser level, are outstanding as installation of the device in question permits staff reduction, with the possibility of closing the newspaper stand, with the assurance that sales will continue without interruption and, on the other hand, the public can obtain any publication at any time it so desires.

In the drawings, FIGURE 1 represents a perspective view of the complete unit, with details of the most important elements' location.

FIGURE 2 represents the same device, in another mode. By changing the motor's location, we obtain a greater capacity, the panel can go down to the motor's height and the power stud can reach the upper part of the compartment.

FIGURE 3 represents a diagram of the different elements in the invented device:

- PANEL - 10- with an inclined position to facilitate the copy falling down to the outside. Two side slots and one upper slot, whose object is to leave the adjustable vertical bars free, so that they can move up and down freely.
- ELEVATOR - 8 - an elevator system, preferably a micromotor that raises up to the newspaper panel until coming in contact with the vertical pusher arm. Stopping can be controlled by means of a photoelectric cell.
- ADJUSTABLE VERTICAL RODS -15- and -13- will be adjustable in the compartment's upper part and the lower part can also be adjusted if necessary, depending on the number of copies. Initially, it will adapt to any size newspaper, and the newspapers will not be subject to any movement or alteration that could deteriorate their pages.
- LOWER VERTICAL ROD -11- will receive the weight of the copies as a result of the panel's

incline, and it will go from the floor up to the compartment's outlet level. This rod can be lowered by means of a flange to facilitate refilling copies.

- TWO ARMS : the first -13- coupled to the adjustable upper rod, with two positions -one vertical for the initial position and the other for pressing downwards on the copies by means of a rectangular plate with a rubber layer so that it adheres to the paper. The second arm -14- is an extendable vertical pipe fixed to the ceiling with rods which will be a continuation of the upper vertical rod's adjustment, with a movement that pushes the copy toward the outlet. The latter's course may be sufficient for grabbing the newspaper or for totally expelling same. This arm will also have a rectangular plate with a rubber layer on its end so that it adheres well to the paper and in the upper part of this plate there is a flange to push the copies towards the outlet. Both arms will be synchronized with the motor's timing.

FIGURE 4 represents a general view of the unit's housing and a perspective of the access door from an upper and lower position, with the possibility of placing a copy so that the newspaper or magazine's cover can be seen.

FIGURE 5 represents, as an example, several possibilities of adapting the dispenser device and unit, operated by introducing coins, change return and several selection buttons.

All the elements mentioned can easily be manufactured in any type of appropriate materials and in the most suitable forms and dimensions, without any limitation whatsoever existing in this regard.

With the nature and object of this invention having been sufficiently described, the only additional statement to be made is that any modification of details carried out in same will be considered as included in this registration protection as long as the change or modification does not alter its characteristic end purpose.

Claims

1. DISPENSER UNIT SYSTEM FOR NEWSPAPERS, MAGAZINES AND ALL TYPES OF PUBLICATIONS, operated by means of introducing coins and installed in a compartment or various compartments.
2. DISPENSER UNIT SYSTEM FOR NEWSPAPERS, MAGAZINES AND ALL TYPES OF PUBLICATIONS, automatically operated by means of introducing coins, as claimed above, essentially characterized by a panel with several specific slots that make this system suit-

able for any size newspaper or magazine.

3. DISPENSER UNIT SYSTEM FOR NEWSPAPERS, MAGAZINES AND ALL TYPES OF PUBLICATIONS, automatically operated by means of introducing coins, in accordance with the foregoing claims, essentially characterized by a panel with a certain inclination to facilitate the copies falling downwards. 5
4. DISPENSER UNIT SYSTEM FOR NEWSPAPERS, MAGAZINES AND ALL TYPES OF PUBLICATIONS, automatically operated by means of introducing coins, in accordance with the foregoing claims, essentially characterized by several adjustable vertical rods used to hold down any size newspaper or magazine to stop any movement or alteration that could damage the pages. 10 15
5. DISPENSER UNIT SYSTEM FOR NEWSPAPERS, MAGAZINES AND ALL TYPES OF PUBLICATIONS, automatically operated by means of introducing coins, in accordance with the foregoing claims, essentially characterized by a coupling system between the adjustable vertical bars and the panel, that leave the latter free to move up or down. 20 25
6. DISPENSER UNIT SYSTEM FOR NEWSPAPERS, MAGAZINES AND ALL TYPES OF PUBLICATIONS, automatically operated by means of introducing coins, in accordance with the foregoing claims, essentially characterized by several arms that hold and push the copies, and that have a plate with a rubber layer on the ends for better adherence to the paper. 30 35
7. DISPENSER UNIT SYSTEM FOR NEWSPAPERS, MAGAZINES AND ALL TYPES OF PUBLICATIONS, automatically operated by means of introducing coins, in accordance with the foregoing claims, essentially characterized by a pusher flange on the vertical arm plate, whose size will be sufficient to hold the copies' pages, with the thickness of same being indifferent. 40 45
8. DISPENSER UNIT SYSTEM FOR NEWSPAPERS, MAGAZINES AND ALL TYPES OF PUBLICATIONS, automatically operated by means of introducing coins, in accordance with the foregoing claims, essentially characterized by the fact that its operation does not need to take into account the thickness of the copies, and they may contain magazine supplements inside. 50 55
9. DISPENSER UNIT SYSTEM FOR NEWSPAPERS, MAGAZINES AND ALL TYPES OF PUBLICATIONS, automatically operated by means of introducing coins, in accordance with the foregoing claims, essentially characterized by an elevation system, preferably a micro-motor, indistinctly installed either at the top, at the bottom or on the side, depending on the copy capacity that we wish to obtain. 10
10. DISPENSER UNIT SYSTEM FOR NEWSPAPERS, MAGAZINES AND ALL TYPES OF PUBLICATIONS, automatically operated by means of introducing coins, in accordance with the foregoing claims, essentially characterized because the compartment in which this system is installed can have a small or large, upper or lower outlet. 15
11. DISPENSER UNIT SYSTEM FOR NEWSPAPERS, MAGAZINES AND ALL TYPES OF PUBLICATIONS, automatically operated by means of introducing coins, in accordance with the foregoing claims, essentially characterized by the simplicity of the copy refilling operation, just by lowering the vertical front rod, placing the copies inside and raising it again up to the newspaper outlet level. 20 25
12. DISPENSER UNIT SYSTEM FOR NEWSPAPERS, MAGAZINES AND ALL TYPES OF PUBLICATIONS, automatically operated by means of introducing coins and installed in a compartment or several compartments. 30 35

Fig.1

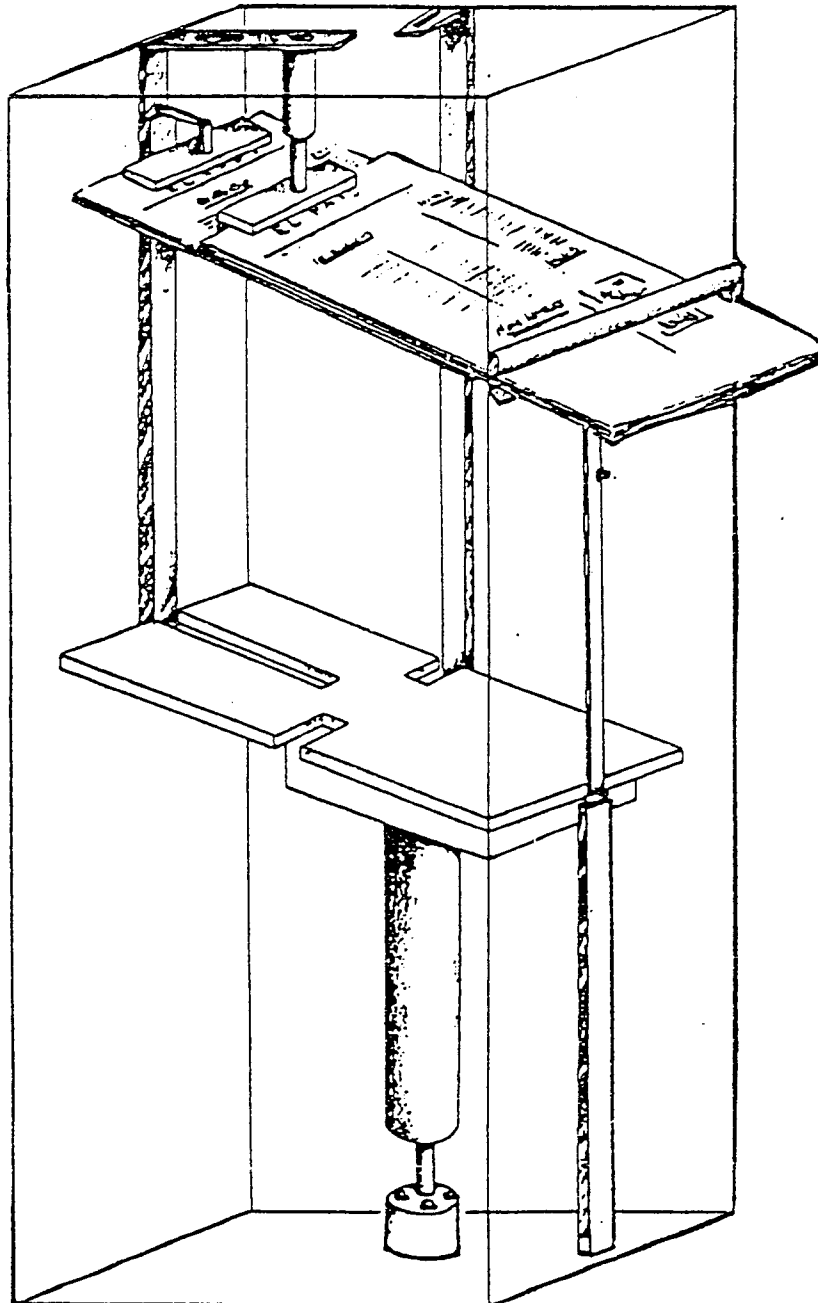


Fig. 2

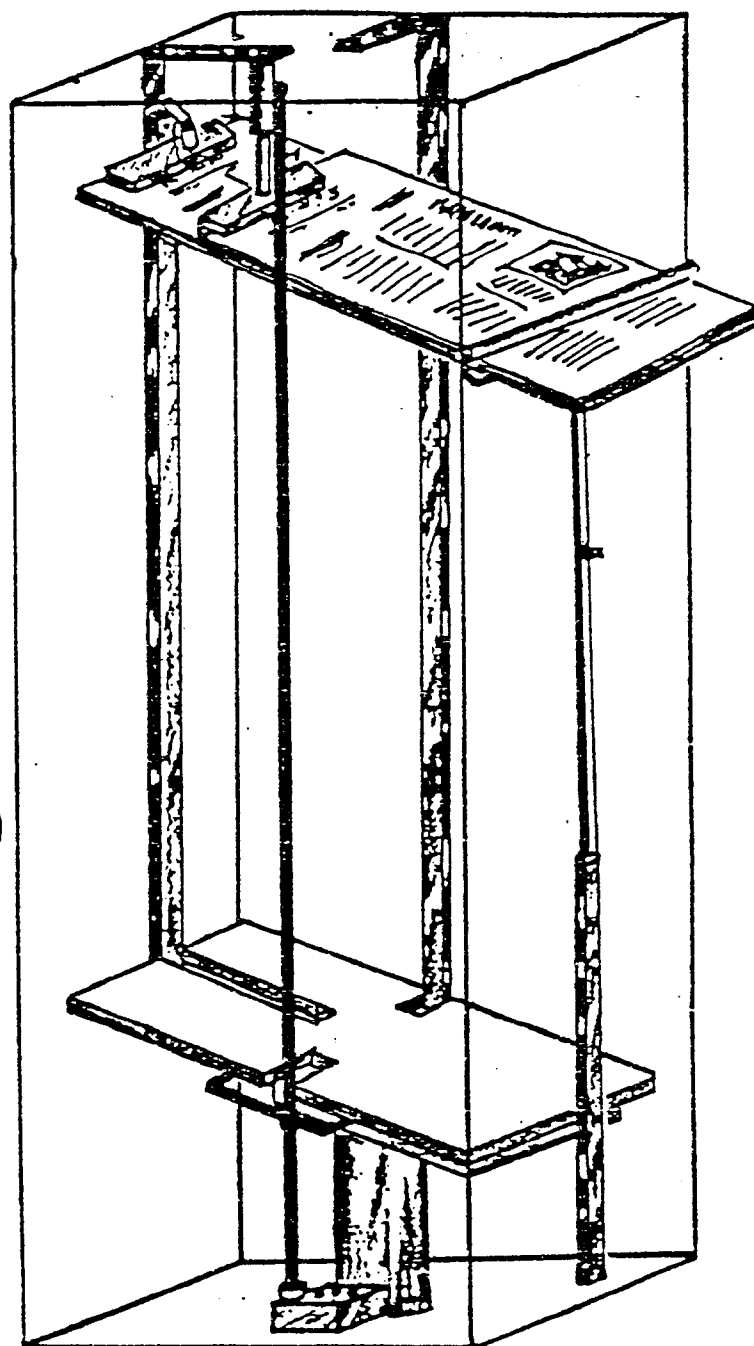


Fig. 3

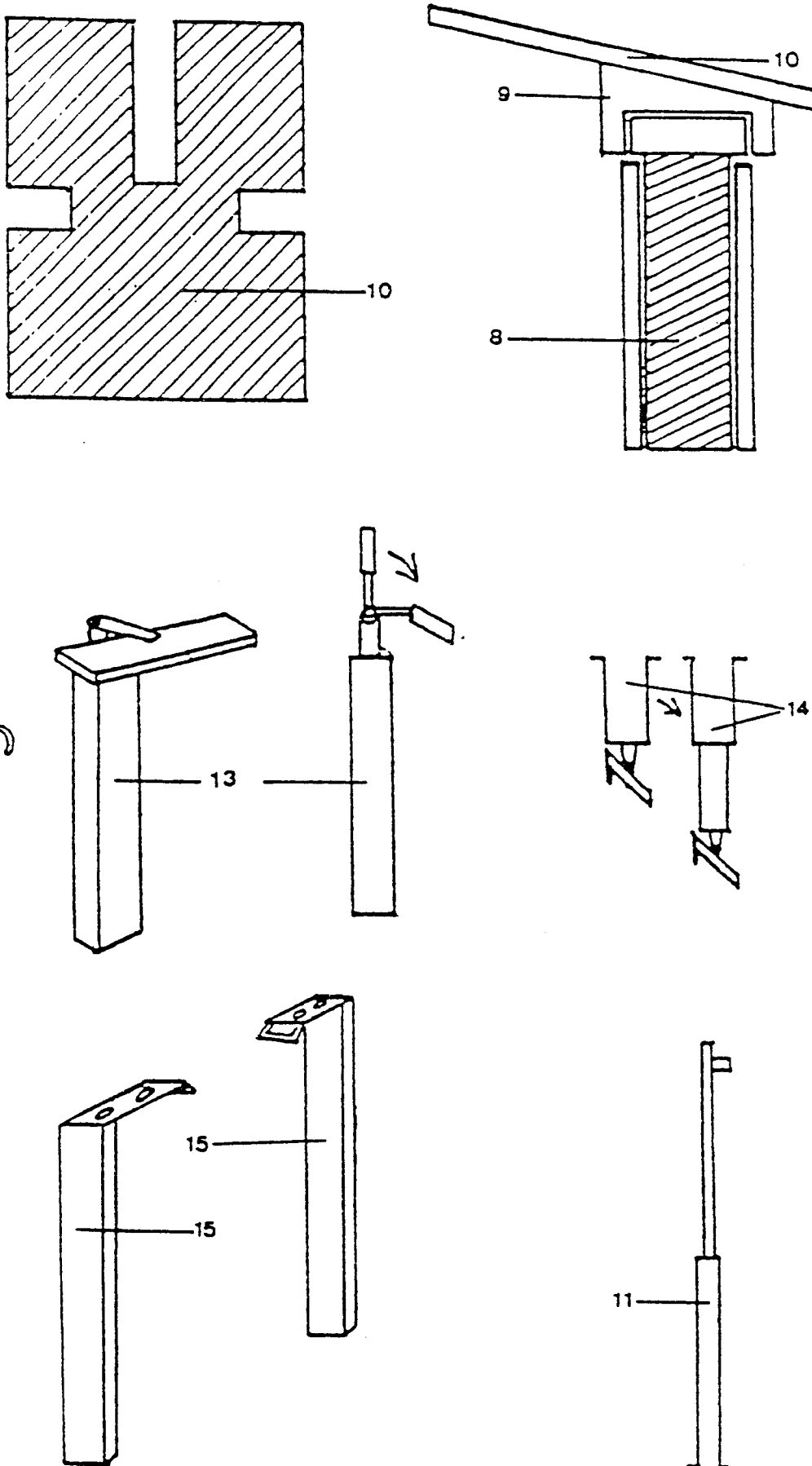


Fig. 4

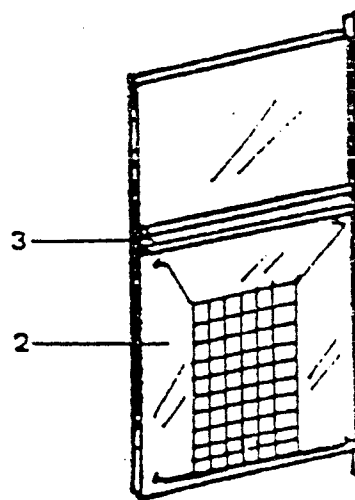
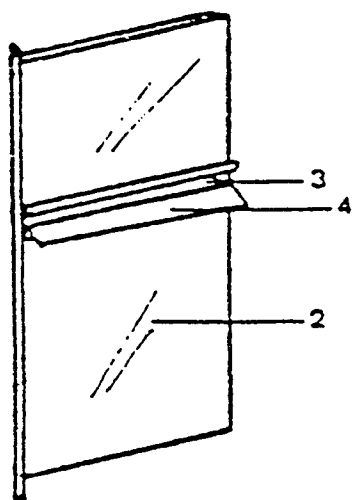
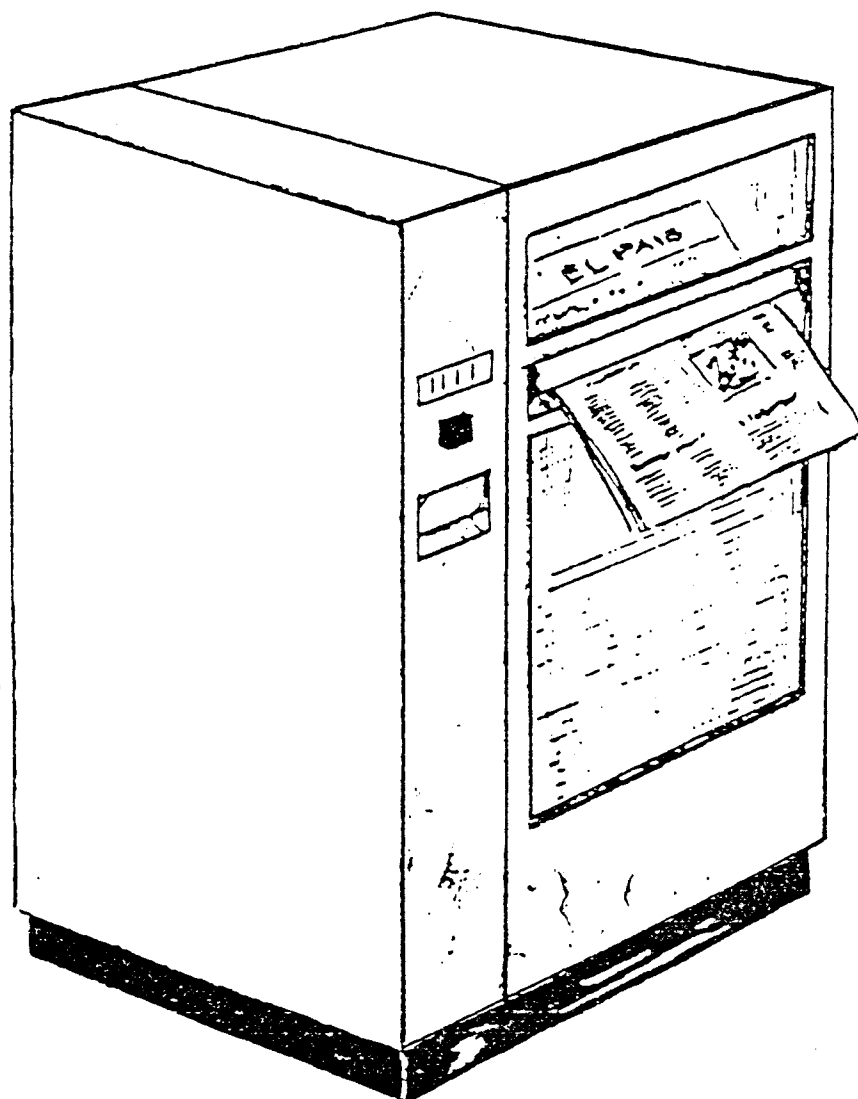
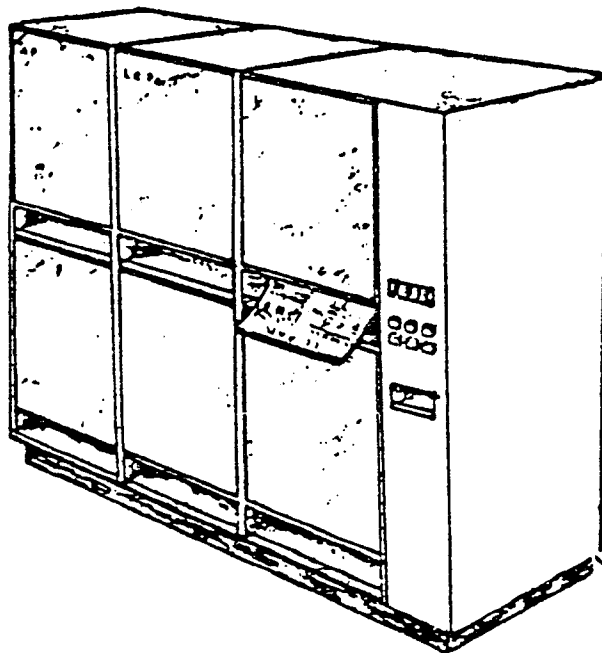
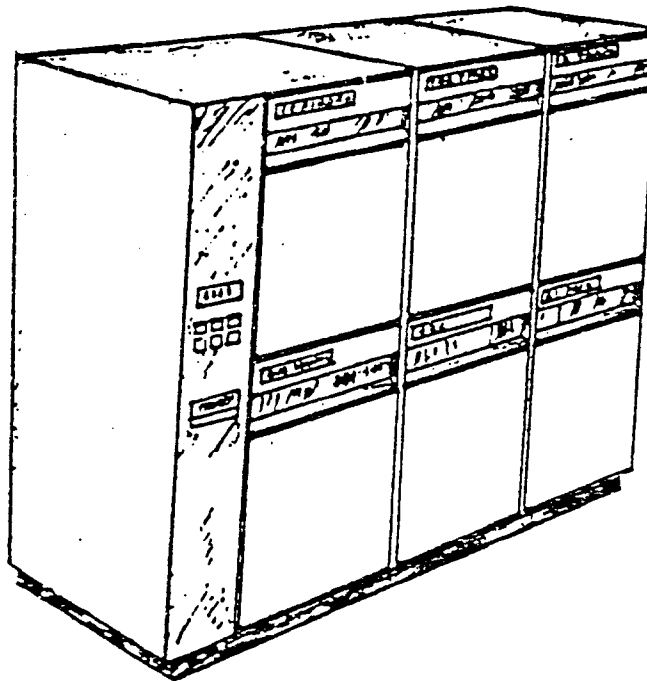


Fig. 5



INTERNATIONAL SEARCH REPORT

International Application No PCT/ES 91/00023

I. CLASSIFICATION OF SUBJECT MATTER (if several classification symbols apply, indicate all) *		
According to International Patent Classification (IPC) or to both National Classification and IPC		
Int. Cl. ⁵	G 07 F 11/04, G 07 F 11/14	
II. FIELDS SEARCHED		
Minimum Documentation Searched ⁷		
Classification System	Classification Symbols	
Int. Cl. ⁵	G 07 F	
Documentation Searched other than Minimum Documentation to the Extent that such Documents are Included in the Fields Searched *		
III. DOCUMENTS CONSIDERED TO BE RELEVANT *		
Category *	Citation of Document, ¹¹ with indication, where appropriate, of the relevant passages ¹²	Relevant to Claim No. ¹³
X	FR, A, 2269155 (G. TOUBOUL) 21 November 1975 see page 3, line 19 - page 4, line 13; figures; claims	1,6,9
A	---	4,5,10,11
X	US, A, 4655369 (L. GABRIEL) 7 April 1987 see abstract; figures; column 3, line 55 - column 4, line 40	1,2
A	---	4-11
X	US, A, 4312461 (F.O. GODLEY) 26 January 1982 see abstract; figures	1,3,5
A	---	2,4,8-11
X	US, A, 4527711 (B.G. HARRELL) 9 July 1985 see abstract; figures; column 3, line 49 - column 5, line 2; column 8, line 26 - column 9, line 55	1,4,7
A	---	2,5,6,8-11
<p>* Special categories of cited documents: ¹⁰</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>"&" document member of the same patent family</p>		
IV. CERTIFICATION		
Date of the Actual Completion of the International Search	Date of Mailing of this International Search Report	
27 June 1991 (27.06.91)	02 August 1991 (02.08.91)	
International Searching Authority	Signature of Authorized Officer	
EUROPEAN PATENT OFFICE		

III. DOCUMENTS CONSIDERED TO BE RELEVANT (CONTINUED FROM THE SECOND SHEET)		
Category *	Citation of Document, with indication, where appropriate, of the relevant passages	Relevant to Claim No
A	US, A, 4506800 (W.J. WINGATE) 26 March 1985	
A	FR, A, 2273329 (J. VAUDEZ) 26 December 1975	
A	GB, A, 701381 (V.A. GRIMMETT) 23 December 1953	