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(54) **A method of indexing a dictionary and the index system thereof.**

(57) method of indexing a dictionary and an indexing system thereof comprising the steps of : dividing the fore edge of a dictionary into an upper indexing area and a lower indexing areas diagonally labelling twenty six English letters in alphabetical order on the upper indexing area of the fore edge according to the pages covered by the same first letter of the entries on a coordinate basis: marking the five English vowels A,E,I,O and U in the lower indexing area on the fore edge of the pages covering each vowel letter being arranged diagonally for corresponding to the relevant locations of the alphabets in the upper indexing area; and providing a plurality of labelling symbols to be respectively marked on both the upper and the lower indexing areas for separately representing the second and the third letters of an entry so than by referring to the letters and symbols on the divided fore edge of the dictionary, any entry that is sought can be quickly and accurately located therewith.

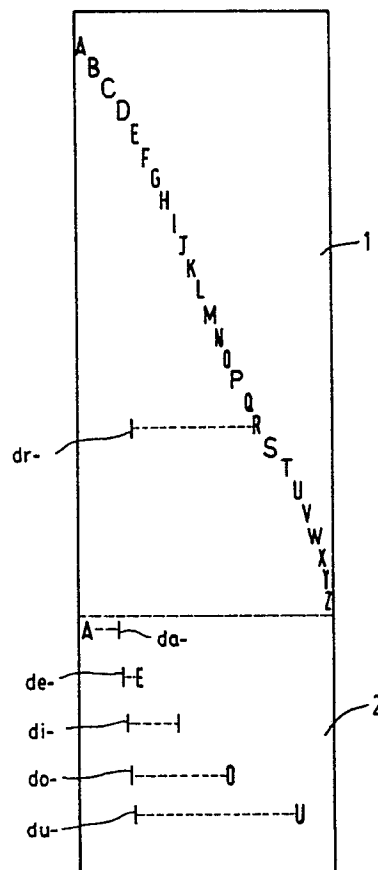


FIG.2

EP 0 297 181 A1

A METHOD OF INDEXING A DICTIONARY AND THE INDEX SYSTEM THEREOF

This invention relates to a device which a method of indexing a dictionary and the index system thereof.

This invention relates to a method of indexing a dictionary with coordinate marking and special symbols for quickly locating an entry without turning page by page.

Conventionally, an index system or a reference number system is provided on the fore edge of a dictionary for aiding a user in finding the entries that are sought. As all the entries in a dictionary are usually arranged in alphabetical order, the known index systems generally include the marking of the English alphabet on the pages covered by the same first letter of the entries, the arrangement of thumb indexes on the fore edge of the dictionary, and the provision of specified colors and stripes along with the alphabet marks. For many years these index systems have been widely used by people but little improvement has been made for quickly locating the desired entry at the exact page. Therefore, the user can find the entry within a specified region but must turn each page in that section to locate the exact one that is sought. The Swiss Patent No. 253020 issued to Paul Senn on November 1, 1948 taught a color coding system in combination with the English alphabet labelled on the fore edge of the dictionary; and the French Patent No. 2.291.039 issued to Kimel also disclosed an index system with different marking stripes assigned to the individual letters, yet all these indexing systems share the same problem as described above.

It is accordingly a primary object of this invention to provide an improved method of indexing a dictionary and an index system thereof that overcomes the problem associated with the prior art.

According to the present invention, this and other objects are achieved by providing a method of indexing a dictionary, which method comprises the steps of: dividing the fore edge of the dictionary into a plurality of areas including an upper indexing area and a lower indexing area; diagonally labelling the English letters in alphabetical order on the fore edge of the upper indexing area by grouping the pages covered by each letter of the alphabet which are respectively marked on a coordinate basis; diagonally marking the English vowels A,E,I,O, and U on the lower indexing area of the fore edge at the locations corresponding to the relevant positions marked in the upper indexing area; and providing a plurality of symbols on both the upper and the lower indexing areas for separately representing the second and the third letters of an entry in conjunction with the letters of the

English alphabet furnished thereto; so that, by referring to the marked letters and symbols thereof any entry that is sought by the user can be quickly located through the first three letters of the entry without turning each page of that section.

Further characteristics and advantages of this invention will become clear from the following description of a preferred embodiment when read in conjunction with the accompanying drawings.

An embodiment of this invention is described by way of examples, with reference to the drawings in which:

FIG.1 is a reference view of indicating the fore edge of a dictionary incorporated with the English alphabet labelled on a coordinate basis according to a prior art

FIG.2 is a perspective view of the fore edge of a dictionary embodying an index system of this invention;

FIG.3A and 3B are illustrative views showing how to locate an entry by referring to the front three letters of the entry;

FIG.4 is a perspective view of the dictionary turned to an entry "dawes" that is sought by using this invention; and

FIG.5 is an illustrative view indicating a portion of the fore edge of the dictionary with a detailed marking for the third letter of an entry according to this invention.

Referring to FIG.1, there shows a reference drawing for explaining the basic coordinate conception adopted by this invention. As it is well known, the plane coordinate system is composed of an X-axis as the abscissa and an Y-axis as the ordinate. By referring to the coordinates of the two axes (X,Y), any specific point in the plane can be located and vice versa. This coordinate principle is applicable to the method of this invention. As shown in FIG.1, the 26 English letters are respectively arranged in alphabetical order along the X and Y axes for being figuratively used as the coordinates.

Taking the Random House College Dictionary (Rivised Edition) as an example, the 26 letters of the English alphabet are respectively marked on an X-axis in correspondence with the covered region of each letter from A to Z while the marking of each letter from A to Z on the Y-axis is separately spaced in 0.7 centimeters. As a result, the fore edge of the dictionary is incorporated with a coordinate plane. Additionally, the coordinate region A,A on the fore edge of the dictionary is marked "A", the coordinate region B,B marked as "B", and so forth until the last coordinate region Z,Z is marked. Consequently, the 26 letters of the English alphabet are diagonally labelled on the fore edge of

the dictionary. This is the basic idea applied by this invention.

Referring to FIG.2, there shows a preferred embodiment of a method of indexing a dictionary and an indexing system thereof in correspondence with this invention. The method of this invention comprises the steps of: dividing the fore edge of the dictionary into a plurality of indexing areas---an upper indexing area 1 and 2 are separately determined for coordinated marking operations as mentioned above; grouping pages that include the entries that have same first letters; making letters from A to Z on the fore edge of each of the grouped pages covered by the same first letters in the upper indexing area 1 in diagonal form; marking each of the grouped pages with vowel letters a,e,i,o and u in the lower indexing area 2 in diagonal form longitudinally corresponding to the position sequence in the upper indexing area 1; designating six kinds of symbols distinguishable in either colors or geometrical marks including 1) , 2) , 3) , 4) , 5) , and 6)  for representing the second letters of each entry in the individually covered regions of the English alphabet, wherein the first five symbols , , , , and  represent the five vowels A, E, I, O and U and are marked in the upper indexing area 1 while the sixth symbol  denotes in the upper area 1 each entry whose second letter is a consonant and also denotes in the lower indexing area 2 entry whose second letter is a vowel; labelling in the upper indexing area 1 the five symbols respectively representing each vowel as the second letter of each entry on the fore edge of the grouped pages thereof at separate locations in coordinate correspondence to the letters marked on the fore edge which are identical to the first and third letters of the last entry(ies) of the left or right side of the leaf(ves) labelled; and labelling the sixth symbol in the upper indexing area 1 on the fore edges of the pages that cover entries whose second letters are of the same consonants and in the lower indexing area 2 on the fore edges of the pages that cover entries whose second letters are of the same vowels.

Referring to Figure 3A and Figure 3B, there shows a practical application of the symbols described above. The fore edges of the pages covering entries having vowels "a" as the second letter, such as ba-(on pages 97-116), ca-(on pages 187-215), da-(on page 334-339), fa-(on pages 472-482)-...etc., are labelled with the first symbol  at the coordinate areas where the letter on the X-axis is identical to the first letter of the last entry of the left (or right) side of the leaf labelled and the letter on the Y-axis identical to the 3rd letter of the same

entry. Taking "Dawes" as an example, since the third letter of the word is "w", the symbol  representing the vowel letter "a" as the second letter of the word "Dawes" is labelled on the fore edge of page 339 at a location where the first letter "D" of the word "Dawes" on the X-axis and the third letter "W" on the Y-axis intersect. Thus, when the marked dictionary is closed, the symbol is present at the location horizontally corresponding to the letter "W" marked in the upper indexing area 1.

Referring to FIG.3B, the symbol  indicating "e" as the second letter of the word "development" on page 363 is marked on the fore edge of the relevant pages of "de-" at the location intersected by the coordinates of "D" on X-axis and "V" on Y-axis. Similarly, the remaining symbols , , and  for the vowels i, o and u as the second letters of the related entries are respectively labelled on the separate coordinate areas in the upper indexing area 1. Consequently, the upper indexing area 1 of the dictionary is provided with the five symbols , , , , and  indicating the locations of the vowel letters a,e,i,o, and u as the second letters of all the relevant entries.

The indexing method described and illustrated hereinbefore is related to labelling all the entries in the English dictionary whose second letter is a vowel, because about 80% of the entire entries in an English dictionary are those whose second letters are one of the vowels. In addition, when the indexing system of this invention is applied in the upper indexing area 1 of any dictionary, 90% of the pages covered therein are separately marked with the symbols described for enabling the users to quickly locate the entries that are sought without turning page by page.

To embody the present invention in a more specific yet slightly different manner, the sixth symbol  is labelled on the fore edge of both the upper and the lower indexing areas 1 and 2. In the lower indexing area 2, the pages marked with the 5 vowels A,E,I,O, and U as shown in FIG.2 are separately marked with the sixth symbol , indicating that the 2nd letter of each entry beginning with a vowel is also a vowel letter such as "au-", "ea-", "ou-", etc. Whereas the same symbol  labelled in the upper indexing area 1 on the fore edge of the pages having the same second letter of each entry indicates the beginnings of entries such "bl-", "cr-", "dr-", "fl-", "gr-", "hy-", "kn-", "pl-", "sc-", "sh-", "th-", etc. With this method of indexing on the fore edge of the dictionary marked with the designated six symbols , , , , , and , those entries beginning with either a vowel or a consonant which is followed by either a consonant or a vowel as their second letters can be

easily and quickly located in the upper indexing area 1: while, those entries beginning with a vowel which is followed by a vowel as their second letters can be rapidly and exactly located in the lower indexing area 2. However, for those entries whose second letters are a consonant that covers relatively more pages, a detailed marking arrangement is made as follows:

Referring to FIG.5, the sixth symbol  is applied to label the third letters of those entries whose second letter is a consonant but the third letters are either a vowel or a consonant. It is preferable that a certain distinctive color be used for this sixth symbol in labelling the third letters of those entries so as to clearly distinguish itself from all six symbols labelled therein. Take "st-" as an example, the pages covered by the "st-" are greater in quantity, and the covered region thereof is marked with 6 sixth symbol  as shown in FIG.4 which respectively represents such beginnings of entries either as "sta-" "ste-", "sti-" "sto", and "stu-" whose third letters are vowels or as "str-" whose third letter is a consonant, that correspond longitudinally to the region covered by the "st-" symbol and horizontally to the five vowels of the 2nd indexing area and the consonant "R" of the 1st indexing area originally labelled in the fore edge of the dictionary. Therefore, when one looks for the entry "stock", for instance, as one simply refers to the "st-" region in the upper indexing area 1, and then turns the fore edge of the dictionary provided with the said symbol  indicating "o" as the 3rd letter in either the upper or the lower indexing area, the entry "stock" can be quickly and accurately located thereat. In a like manner, those pages having been divided into a number of regions, each region having entries with the same first letter and the same consonant as their second letter is subdivided into a number of sub-regions, and each sub-region is labelled with the same symbol, such as the the sixth symbol , in the same color as that used for labelling the sub-regions respectively covered in the "st-" region. With this detailed labelling in the lower indexing area 2, it is very convenient for the user to promptly locate any entry in the dictionary provided with this indexing system of the present invention by simply referring to the initial three letters of an entry. It shall be appreciated that the symbols representing the third letters labelled therein will not cause any confusion with those representing the second letters, and that all the symbols labelled on the fore edge of a dictionary would on no account overlap with each other because no two symbols labelled therein such as "st-" and "str-" or "st-" and "co-" are similar to each other with respect to the coordinate position. As to those entries whose second letters cover a small region of pages in the dictionary, no

further labelling is required because, by the user's referring to the initial two letters of those entries, they can be easily located without turning page by page.

While I have described and illustrated my invention by means of a specific embodiment, it is to be understood that numerous changes and modifications may be made therein without departing from the spirit and scope of the invention as defined in the appended claims.

Claims

1. A method of indexing a dictionary and an indexing system thereof comprising the steps of:

a. Dividing the fore edge of a dictionary into a plurality of indexing areas with a predetermined space for each area;

b. Diagonally marking the twenty-six English letters in alphabetical order on the fore edge of an upper indexing area of said indexing areas according to the pages covering entries that have the same first letter similar to the one marked on their fore edges and at a location intersected by the coordinates thereof;

c. Marking the five English vowels A, E, I, O and U on the fore edge of a lower indexing area of said indexing areas and at the location longitudinally corresponding to the same vowel letters marked in said upper indexing area thereof;

d. Designating a plurality of labelling means for respectively denoting the second letter of each entry covered by region marked on the fore edge with the letters of the alphabet;

e. Separately labelling said labelling means on the fore edge of said upper indexing area and at each region covering entries that have the same second letter in both vowel and consonant, and on the fore edge of said lower indexing area at the region covering entries that have the same second vowel letter; and respectively labelling a same one of said labelling means in said indexing areas to separately represent the third letters of those entries whose 1st and 2nd letters appear in more pages therein; so that, by referring to the marking of letter and said labelling means, any entry that is sought can be quickly and accurately located therewith.

2. A method of indexing a dictionary and an indexing system thereof according to Claim 1 wherein said labelling means comprise 6 symbols, including , , , ,  and .

3. A method of indexing a dictionary and an indexing system thereof according to Claim 2 where in said labelling means comprise a plurality of colors adapted for making a distinction between each other.

4. A method of indexing a dictionary and an indexing system thereof according to Claim 3 wherein said six symbols are designated as follows:

Symbol 1  including an upper short bar and a lower long bar for denoting the English vowel "A";

Symbol 2  including three short bars for denoting the English vowel "E";

Symbol 3  including one short bar for denoting the English vowel "I";

Symbol 4  including an upper long bar and a lower short bar for denoting the English letter "O";

Symbol 5  including two short bars for denoting the English letter "U"; and

Symbol 6  including one long bar for denoting the second consonant letter of an entry in said upper indexing area but denoting the second vowel letter of an entry in said upper indexing area but denoting the second vowel letter of an entry in said lower indexing area.

5. A method of indexing a dictionary and an indexing system thereof according to Claim 4 wherein said symbols 1 through 5 are respectively labelled in said upper indexing area and located at a position horizontally corresponding to a letter marked on the fore edge similar to the third letter of a first or a last entry on either the left or right side of the labelled leaf.

6. A method of indexing a dictionary and an indexing system thereof according to Claim 4 wherein said symbol 6 is labelled in said upper and lower indexing areas at all the regions covering the entries having the same second letter.

7. A method of indexing a dictionary and an indexing system thereof according to Claim 6 where in a same symbol of said labelling means is further labelled in said upper indexing area as well as in said lower indexing area at the regions divided from bigger regions having more pages that cover entries beginning with the same first and second letters to cover entries that have the same third letters in a sub-divided region.

8. A method indexing a dictionary and an indexing system thereof according to Claim 7 wherein the labelling of said same symbol in said upper and lower indexing areas further comprises a specific color designated thereto clearly distinguishable from said symbol 1 through 6 labelled in said upper and lower indexing areas.

9. A method of indexing a dictionary and the index system thereof, an arranged substantially as herein described with reference to any of the figures of the drawings.

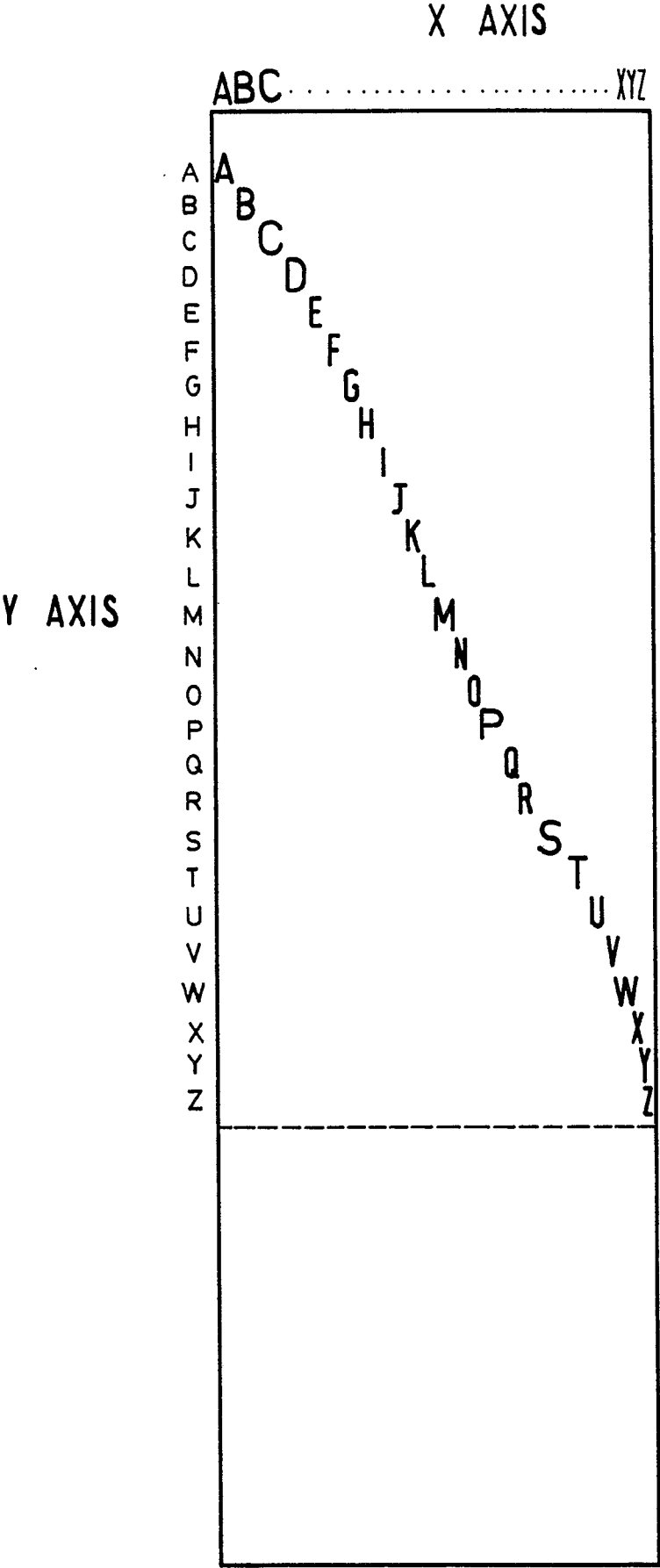


FIG.1 (PRIOR ART)

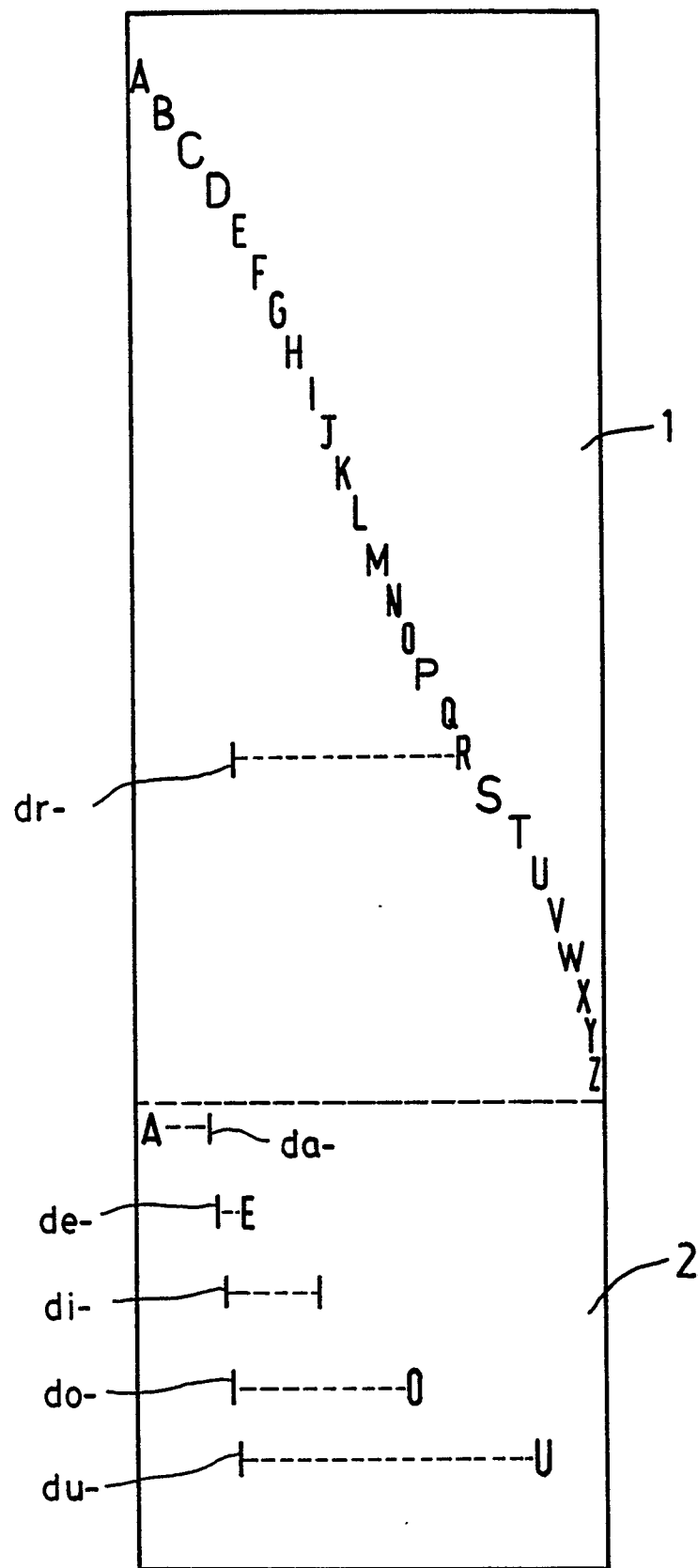


FIG. 2

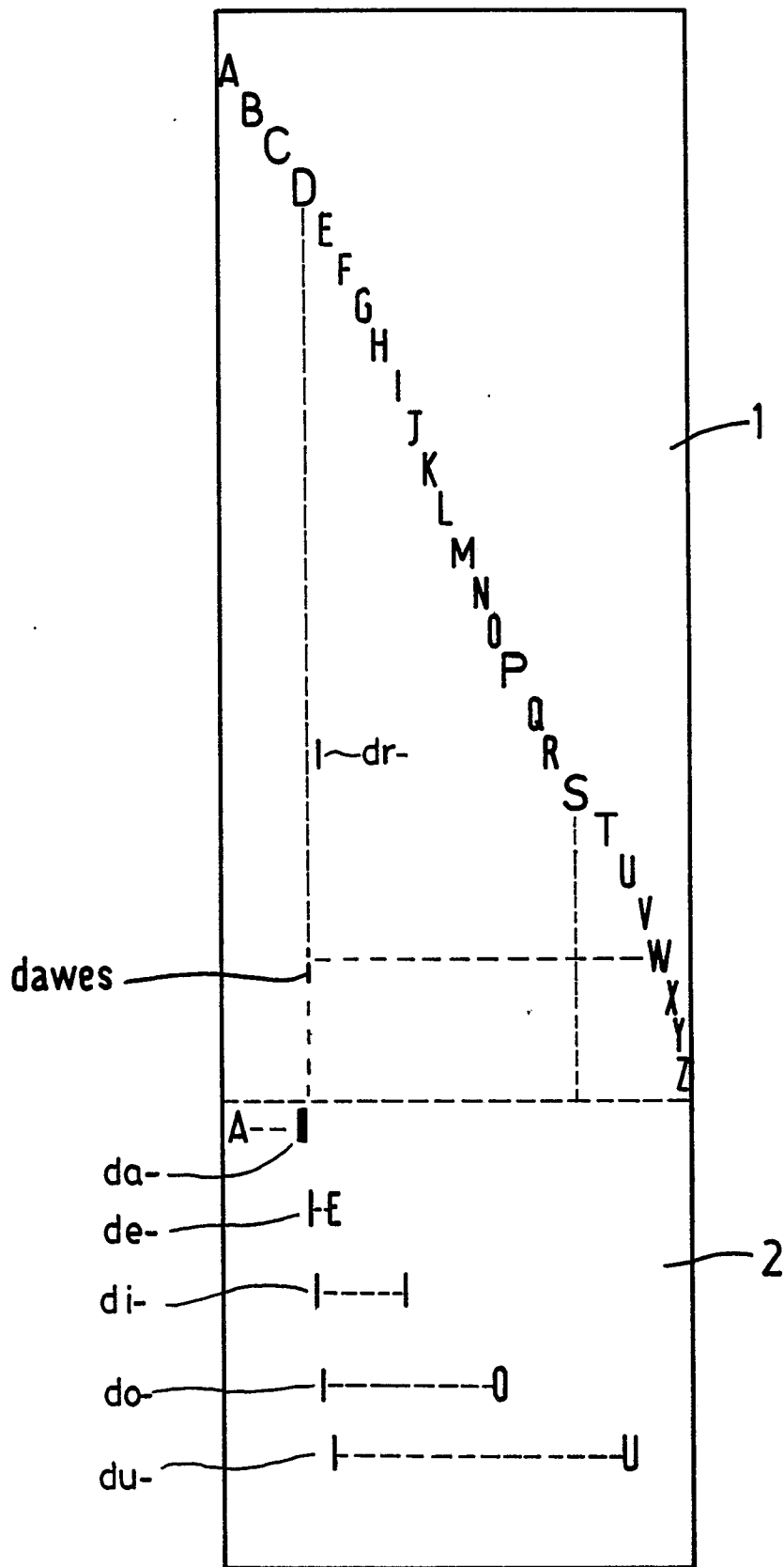


FIG.3A

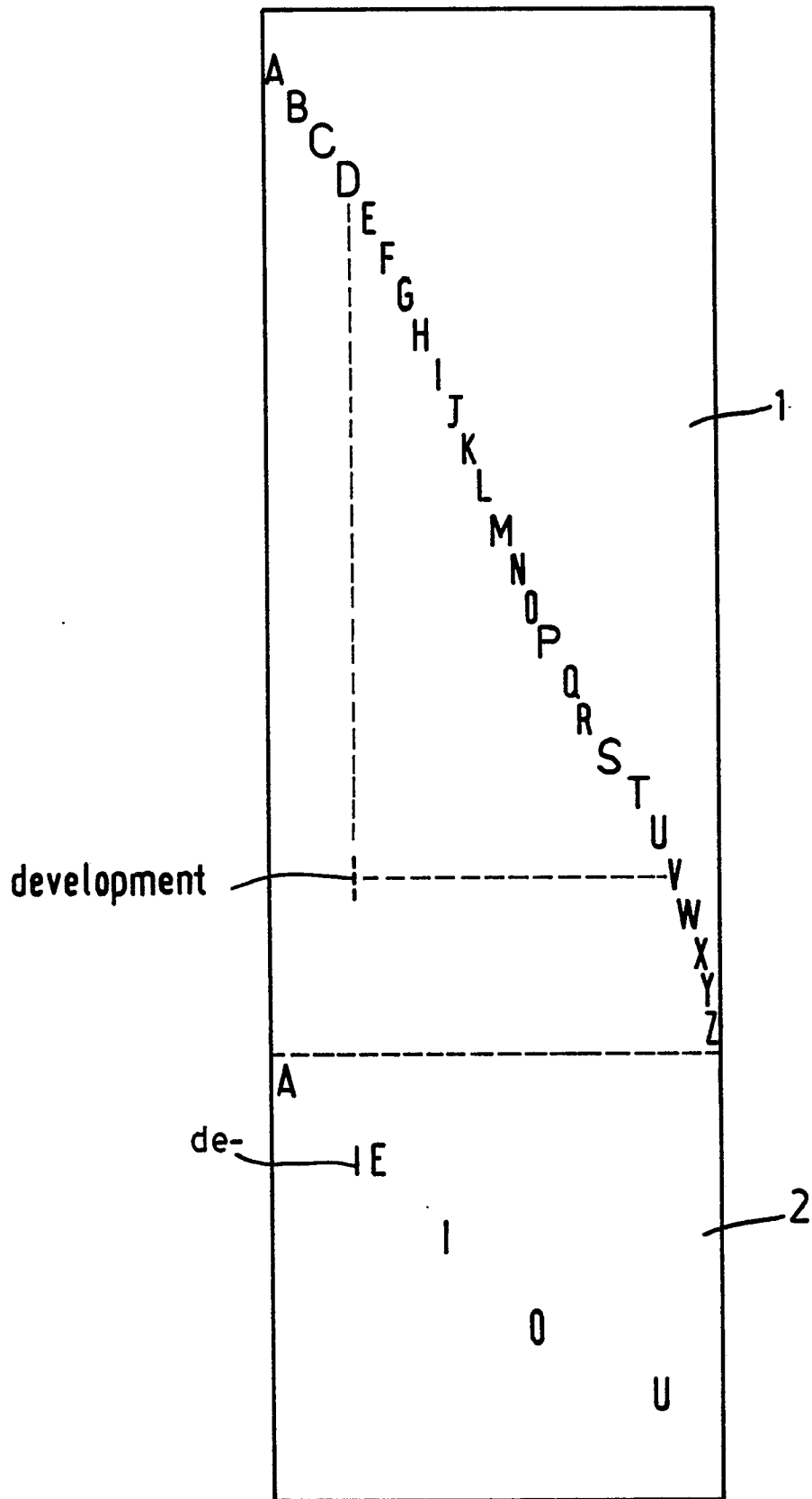


FIG.3B

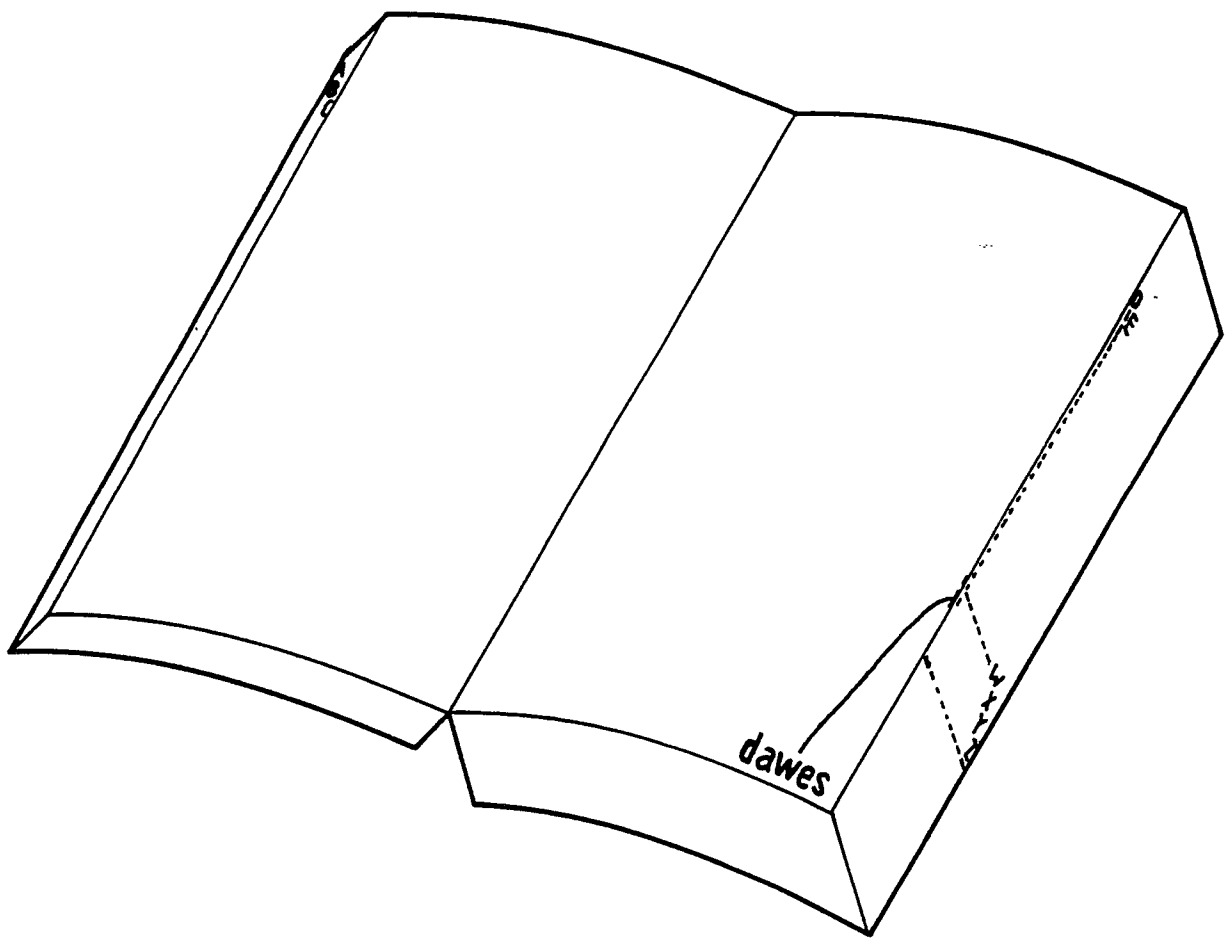


FIG.4

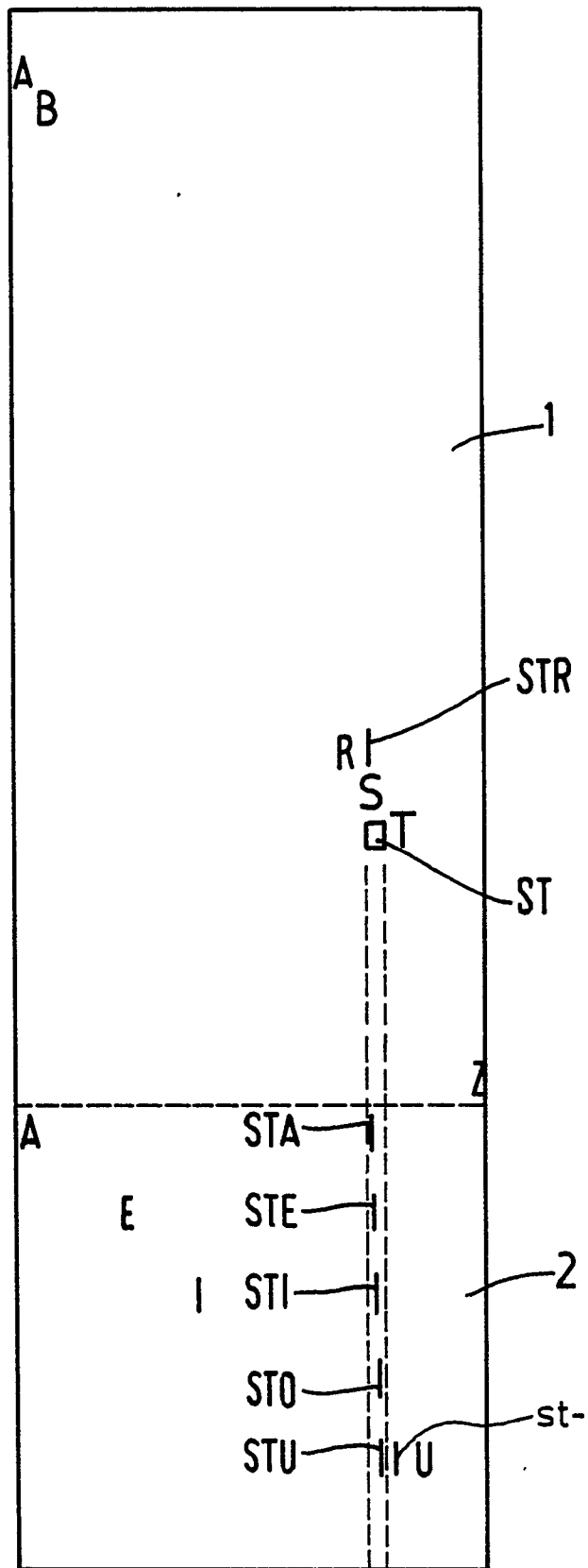


FIG. 5



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.4)
Y	FR-A-2 327 105 (KIMEL) * Whole document * ---	1,2,3,9	B 42 F 21/00
Y	FR-A-1 085 284 (RAUNER) * Whole document * ---	1,2,3,9	
Y	WO-A-8 203 205 (BUCHACA) * Whole document * ---	1,2,3,9	
A	US-A-2 369 173 (OPPENHEIMER) * Whole document * -----	1-9	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			B 42 F B 42 D
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 04-03-1988	Examiner MEULEMANS J. P.
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			