





G. THACKRAH.

INDEX.

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965,666.

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2 SHEETS—SHEET 2.

**Fig. 2**

106		113	Evanouski, F.W. Etti, H.L.
107		114	
108	Emmond, L.L. Egand, J.B.	115	
109		116	
110		117	
111		118	Elan, H.B. Ellmann, T.N.
112		119	

**Fig. 3**

40	
a	Barton George
e	Benson Wm
i	Brinton J

**Fig. 4**

40	A	E	I	40	O	U	Y
41				41			
42				42			
43				43			

WITNESSES

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# UNITED STATES PATENT OFFICE.

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## INDEX.

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Specification of Letters Patent.

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*To all whom it may concern:*

Be it known that I, GEORGE THACKRAH, a citizen of the United States, and a resident of Salt Lake City, in the county of Salt Lake and State of Utah, have invented a new and Improved Index, of which the following is a full, clear, and exact description.

The invention relates to book-keeping, and its object is to provide a new and improved index for indexing the names of persons, places, things or words by the first and final letters thereof, the index being simple and easily manipulated and arranged to permit instant reference to an exceedingly large number of entries.

The invention consists in a chart having vertical and horizontal rows of letters of the alphabet, each of the letters in the vertical row representing a corresponding first letter of a given word or name, and the letters in the horizontal row corresponding to the final letter of the same word or name, and intersecting horizontal and vertical numeral rows in alinement with the said letters of the alphabet and containing consecutive numerals, the numeral at the intersection of a horizontal numeral row and a vertical row representing the space of the entry book for the given name or word.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of an entry book for names or words and open at the index bound in the entry book; Fig. 2 is a perspective view of the entry book open at some of the entries entered according to the first and last letters of the name or word; Fig. 3 is a similar view of the same open at some entries entered according to the first and final letters with first vowel sections; and Fig. 4 is a similar view of the same open at some entries according to the first and the final letters with first vowel columns.

The book *a* for the entry of given names or words is provided with index pages *b*, *b* (see Fig. 1) and with name or word pages *b'*, *b'* and *b<sup>2</sup>*, *b<sup>2</sup>*, as indicated in Figs. 2 and 3, for recording the names or words according to the index. Instead of binding in the index with the pages of the book it is evident that the said index can be used separately from the book, if desired.

The index shown in Fig. 1 consists of a

vertical row *c* of the letters of the alphabet, and which row may be represented on each side of a page, as plainly shown in Fig. 1. A horizontal row *d* of letters of the alphabet extends across the index pages and is preferably repeated at the middle and the bottom, as shown in Fig. 1. The index is further provided with vertical and horizontal intersecting numeral rows *e* in alinement with the letters of the alphabet in both rows *c* and *d*. The numerals in the rows *e* are consecutive and, as shown in Fig. 1, run from 1 to 676, and represent a corresponding number of entry spaces *f* of the pages *b'*, *b'*, as indicated in Fig. 2, each space *f* having a numeral *g* corresponding to the numeral in the intersecting rows *e* of the index. Now in order to enter a name or word according to the first and final letters thereof, I proceed as follows: Presuming that the name to be entered is "Emmond," then we find the first and final letters are E and D, and following the horizontal row headed by the letter E in the vertical row to the intersection with the vertical row headed by the letter D in the horizontal row *d* we find the numeral 108. Thus names or words beginning with E and ending with D are indexed in the entry space *f* numbered 108. In a like manner names beginning with E and ending with I are entered in the entry space *f* bearing the numeral 113, which is the numeral at the intersection of the horizontal and vertical rows headed by the letters E and I, respectively, in the rows *c* and *d*.

The index may be used in connection with 676 pages, indexed according to the first and final letters with first vowel sections, as indicated in Fig. 3. In this case, the pages *b<sup>2</sup>* are numbered as at *g'*, according to the index numerals, and the page is divided into entry sections *f'* headed at the left by the vowels a, e, i, o, u, and y. By this arrangement 676 entry pages are used, and allowing 50 lines to each reference, there would be a capacity for 33,800 names.

It is understood that the page number is derived from the initial and last letter of the name or word to be indexed in the manner above described, and the name or word is entered on the corresponding page in the space *f'* headed by the first vowel in the name or word. Thus if the name "Barton, George," for instance, is to be indexed, the page number 40 is found in the index at the



intersection of the horizontal and vertical rows *c* and *d* headed by the first and last letters B and N of the name "Barton," and the latter is then entered in the division 5 headed "a," as this letter "a" is the first vowel in the word "Barton." In a like manner, the name or word "Benson" is entered on page 40 in the division headed by the vowel "e," as will be readily understood 10 by reference to Fig. 3.

The index may be used in connection with 200 pages, indexed according to the first and final letters with first vowel columns, as shown in Fig. 4. In this case, adjacent 15 pages  $b^3$ ,  $b^3$  are divided into sections  $f^2$ , each headed by a numeral  $g^2$  derived from the index, and each page is divided into entry columns headed by the vowels a, e, i, o, u, y.

20 Entries are made in the spaces or sections  $f^2$  according to the first and last letter, and in the corresponding column headed by the first vowel in the name, as will be readily understood by reference to Fig. 4. In this 25 manner by the use of the index and the division and columns of the entry pages, provision is made for differently-headed 4056 entry spaces for containing 10000 names.

30 From the foregoing it will be seen that by the use of the index, names and words can be readily entered in the book, or reference to such entered names or words can be quickly made, as the initial and the last letter of the name or word determines the 35 entry space number, and in case the "first vowel" extension book is used the word is readily located on the page in the space headed by the corresponding first vowel.

Having thus described my invention, I

claim as new and desire to secure by Let- 40 ters Patent:

In an index, the combination of rows of vertically arranged similar squares, and rows of horizontally arranged similar squares, a vertically alphabetically arranged 45 row of letters, each of the said letters disposed opposite one of the said rows of horizontal squares, a horizontally alphabetically arranged row of letters, each of the said letters disposed opposite one of the said 50 rows of vertical squares, successively increasing numbers arranged in the said squares with one number in each square and with the initial number in the initial square opposite the initial letter in the said 55 vertical row of letters and the initial letter in the said horizontal row of letters, and with the horizontal rows of numbers increasing successively from left to right from the initial number and the vertical rows of 60 numbers increasing proportionally downward from the initial number, and an entering page having a surname inscribed thereon, the number of the said page being similar to the number at the intersection of 65 the horizontal row of numbers having opposite thereto in the vertical column of letters the initial letter of the said surname, and the vertical column of numbers having opposite thereto in the said horizontal row of 70 letters the final letter of the said surname.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEORGE THACKRAH.

Witnesses:

JAMES W. SANDERS,  
OLIVER ALTREE.