



US005189610A

# United States Patent [19]

[11] Patent Number: **5,189,610**

Kaplan et al.

[45] Date of Patent: **Feb. 23, 1993**

- [54] **ELECTRONIC DICTIONARY WITH CORRECT AND INCORRECT WORDS**
- [75] Inventors: **Ronald M. Kaplan**, Palo Alto, Calif.; **Michael A. McCourt**, Fairport; **Kenneth J. Henderson**, Pittsford, both of N.Y.
- [73] Assignees: **Xerox Corporation**, Stamford, Conn.; **Microlytics, Inc.**, Pittsford, N.Y.
- [21] Appl. No.: **355,062**
- [22] Filed: **May 17, 1989**

### Related U.S. Application Data

- [63] Continuation of Ser. No. 921,655, Oct. 20, 1986, abandoned.
- [51] Int. Cl.<sup>5</sup> ..... **G06Z 15/40**
- [52] U.S. Cl. .... **364/419; 364/928.5; 364/975; 364/965.5; 364/261.2; 364/DIG. 2**
- [58] Field of Search ... **364/200 MS File, 900 MS File, 364/419**

### References Cited

U.S. PATENT DOCUMENTS			
4,383,307	5/1983	Gibson .....	364/900
4,542,453	9/1985	Patrick et al. ....	364/200
4,607,332	8/1986	Goldberg .....	364/900 X
4,651,300	3/1987	Suzuki et al. ....	364/900
4,654,847	3/1987	Dutton .....	371/10
4,671,684	6/1987	Kojima et al. ....	400/63
4,688,173	8/1987	Mitarai et al. ....	364/900 X
4,689,768	8/1987	Heard et al. ....	364/900
4,704,703	11/1987	Fenwick .....	364/900
4,787,059	11/1988	Yoshimura .....	364/900
4,811,273	3/1989	Kishimoto .....	364/900

### FOREIGN PATENT DOCUMENTS

62-78680	4/1987	Japan .
2121224	12/1983	United Kingdom .

### OTHER PUBLICATIONS

Perkins et al "ROM Patching Mechanism Utilizing an

Interrupt Facility", IBM, TDB vol. 24, No. 11B, Apr. 1982, pp. 5956-5958.  
 Holder, W., "Software Tools for Writers," *Byte*, Jul. 1982, pp. 138-163.  
 Peterson, J. L., "Computer Programs for Spelling Correction: An Experiment in Program Design" *Lecture Notes in Computer Science* 96, Springer-Verlag, New York (Oct. 1980), pp. 6-17, 51-72, 87-104, and 112-121.  
 Peterson, James L., "Computer Programs for Detecting and Correcting Spelling Errors," *ACM*, vol. 23, No. 12, Dec. 1980, pp. 676-686.  
 McIlroy, M. Douglas, "Development of a Spelling List," *IEEE*, vol. COM-30, No. 1, pp. 91-99, Jan. 1982.

Primary Examiner—Thomas C. Lee

### [57] ABSTRACT

A personal computerized dictionary to which not only positive but also negative versions of words can be added by the user to customize the spelling check module to a specific application. In a preferred embodiment, such a dictionary is incorporated in a spelling check module for use in conjunction with an electronic typewriter or personal computer of the type which has a keyboard and a data processor interconnected by a respective keyboard connector and a data processor connector. The spelling check module includes male and female connectors which are arranged to receive the keyboard connector and data processor connectors. The spelling check module is installed by disconnecting the keyboard connector from the data processor connector and interposing the spelling check module therebetween by connecting the keyboard connector and the data processor connector to the respective connectors of the spelling check module. The spelling check module is controlled by selected non-printing, non-control keys.

20 Claims, 11 Drawing Sheets

