



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification⁶:

G06F 3/023

A2

(11) International Publication Number:

WO 99/15952

(43) International Publication Date:

1 April 1999 (01.04.99)

(21) International Application Number: PCT/US98/20200

(22) International Filing Date: 24 September 1998 (24.09.98)

(30) Priority Data:

60/060,223	25 September 1997 (25.09.97)	US
Not furnished	24 September 1998 (24.09.98)	US

(71) Applicant: TEGIC COMMUNICATIONS, INC. [US/US];
2001 Western Avenue, Seattle, WA 98121 (US).(72) Inventors: FLINCHEM, Edward, P.; 118 West Kinneer Place,
Seattle, WA 98119 (US). GROVER, Dale, L.; 731 West
Genesee, Lansing, MI 48915 (US). GRUNBOCK, Cheryl;
P.O. Box 1829, Vashon, WA 98070 (US). KING, Martin,
T.; P.O. Box 1829, Vashon, WA 98070 (US). KUSHLER,
Clifford, A.; 10857 Point Vashon Drive S.W., Vashon, WA
98070 (US).(74) Agent: CULIC, Mary, L.; Christenten O'Connor Johnson &
Kindness PLLC, Suite 2800, 1420 Fifth Avenue, Seattle,
WA 98101 (US).(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR,
BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE,
GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ,
LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW,
MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent
(GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent
(AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent
(AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT,
LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI,
CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

Without international search report and to be republished
upon receipt of that report.

(54) Title: REDUCED KEYBOARD DISAMBIGUATING SYSTEM

(57) Abstract

A reduced keyboard disambiguating system. The keyboard has twelve to sixteen keys, nine of them labeled with numerous letters and other symbols, and those nine plus one more are associated each with one of the ten digits. Textual entry keystrokes are ambiguous. The user strikes a delimiting "Select" key, or a key with an unambiguous character interpretation, at the end of each word, delimiting a keystroke sequence that could match any of a plurality of words associated with the same keystroke sequence. Each input keystroke sequence is processed with a complete vocabulary, and words which match the sequence of keystrokes are presented to the user in order of decreasing frequency of use. The vocabulary is stored in a special format that support significant data compression without requiring additional processing. In addition, stems of longer words whose initial letters match the sequence of keystrokes are also presented to the user in order of decreasing frequency of use. If the frequency of

the words associated with a stem is high enough, that stem is displayed as the default word object. Activations of an ambiguous key associated with a plurality of punctuation characters are disambiguated from the context of the surrounding keystrokes.

