

(12) **United States Patent**  
**Chew et al.**

(10) **Patent No.:** **US 6,593,949 B1**  
 (45) **Date of Patent:** **Jul. 15, 2003**

(54) **SMART COLUMN FOR CONTACT INFORMATION ON PALM-SIZED COMPUTING DEVICES AND METHOD AND APPARATUS FOR DISPLAYING THE SAME**

(51) **Int. Cl.<sup>7</sup>** ..... **G06F 3/00**  
 (52) **U.S. Cl.** ..... **345/841; 345/157**  
 (58) **Field of Search** ..... **345/157, 169, 345/173, 863, 762, 763, 764, 841**

(75) **Inventors:** **Chee H. Chew**, Redmond, WA (US); **Elizabeth A. Bastiaanse**, Cambridge, MA (US); **Ido Ben-Shachar**, Sammamish, WA (US); **Jeffrey R. Blum**, Seattle, WA (US); **Mark H. Enomoto**, Seattle, WA (US); **Greg A. Keyser**, Sammamish, WA (US); **Kathryn L. Parker**, Fall City, WA (US); **Kevin T. Shields**, Redmond, WA (US); **Sarah E. Zuberec**, Seattle, WA (US)

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*Primary Examiner*—Cao (Kevin) Nguyen  
 (74) *Attorney, Agent, or Firm*—Westman, Champlin & Kelly, P.A.

(73) **Assignee:** **Microsoft Corporation**, Redmond, WA (US)

(57) **ABSTRACT**

(\*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

The UI of the present invention increases the number of contacts initially shown to the user of a hand-held device to aid the user in finding information in a Contacts database. While displaying a list of Contacts database entries, the UI displays a column which contains single letters indicating the type of information displayed for the names represented in the list of entries. A tap on a letter in that column causes a sub-list of other most commonly needed information to be deployed for the corresponding entry, potentially eliminating the need for the user to open the entire record for that entry.

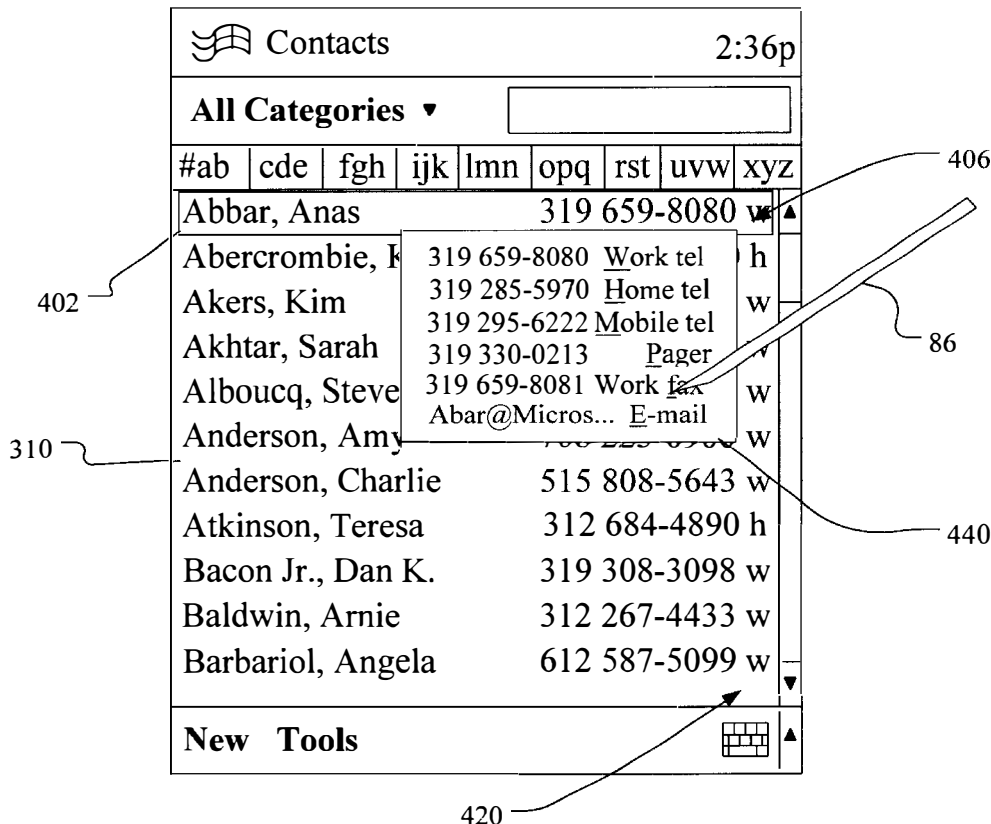
(21) **Appl. No.:** **09/564,515**

(22) **Filed:** **May 4, 2000**

**Related U.S. Application Data**

(60) **Provisional application No. 60/175,109**, filed on Jan. 6, 2000.

**19 Claims, 11 Drawing Sheets**



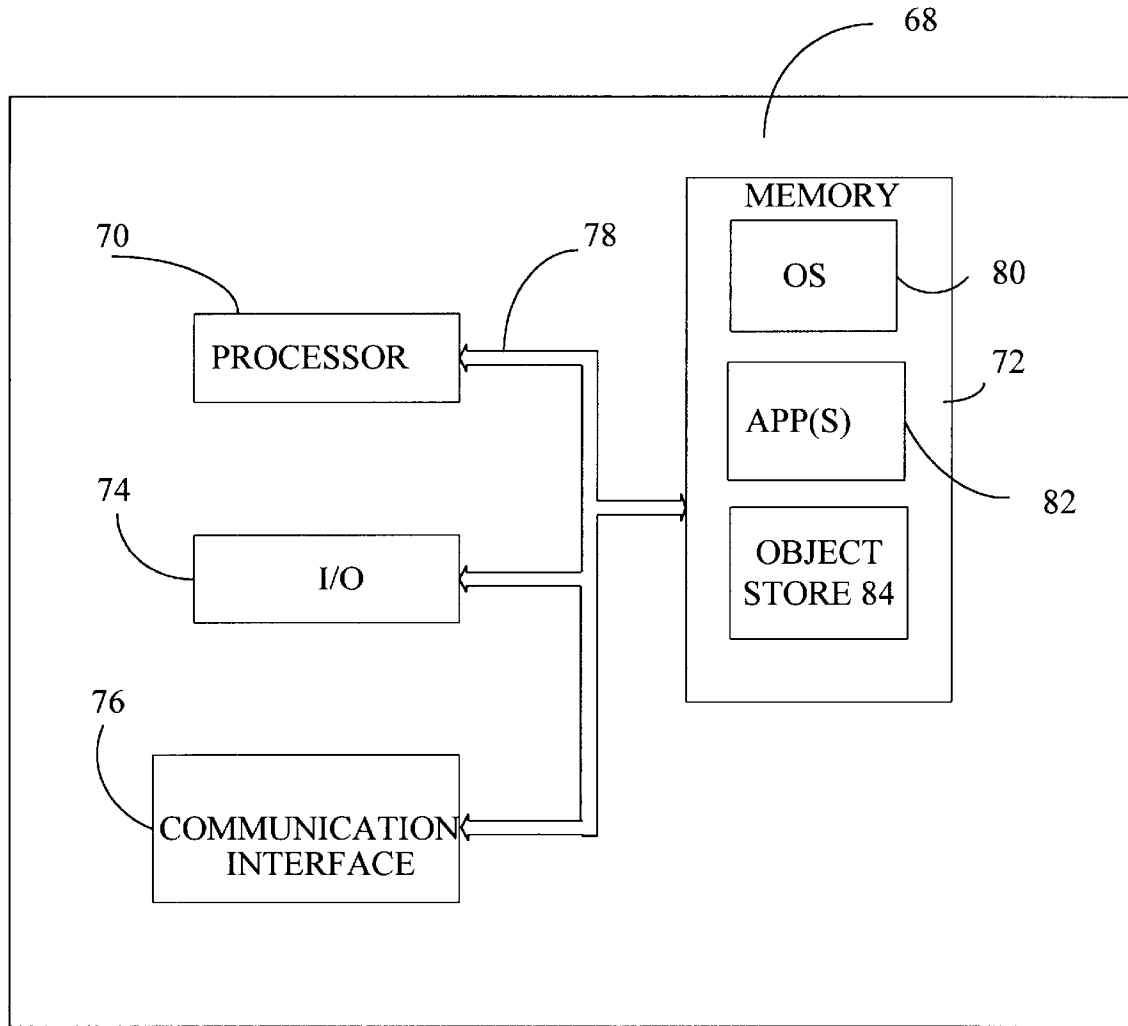


FIG. 1

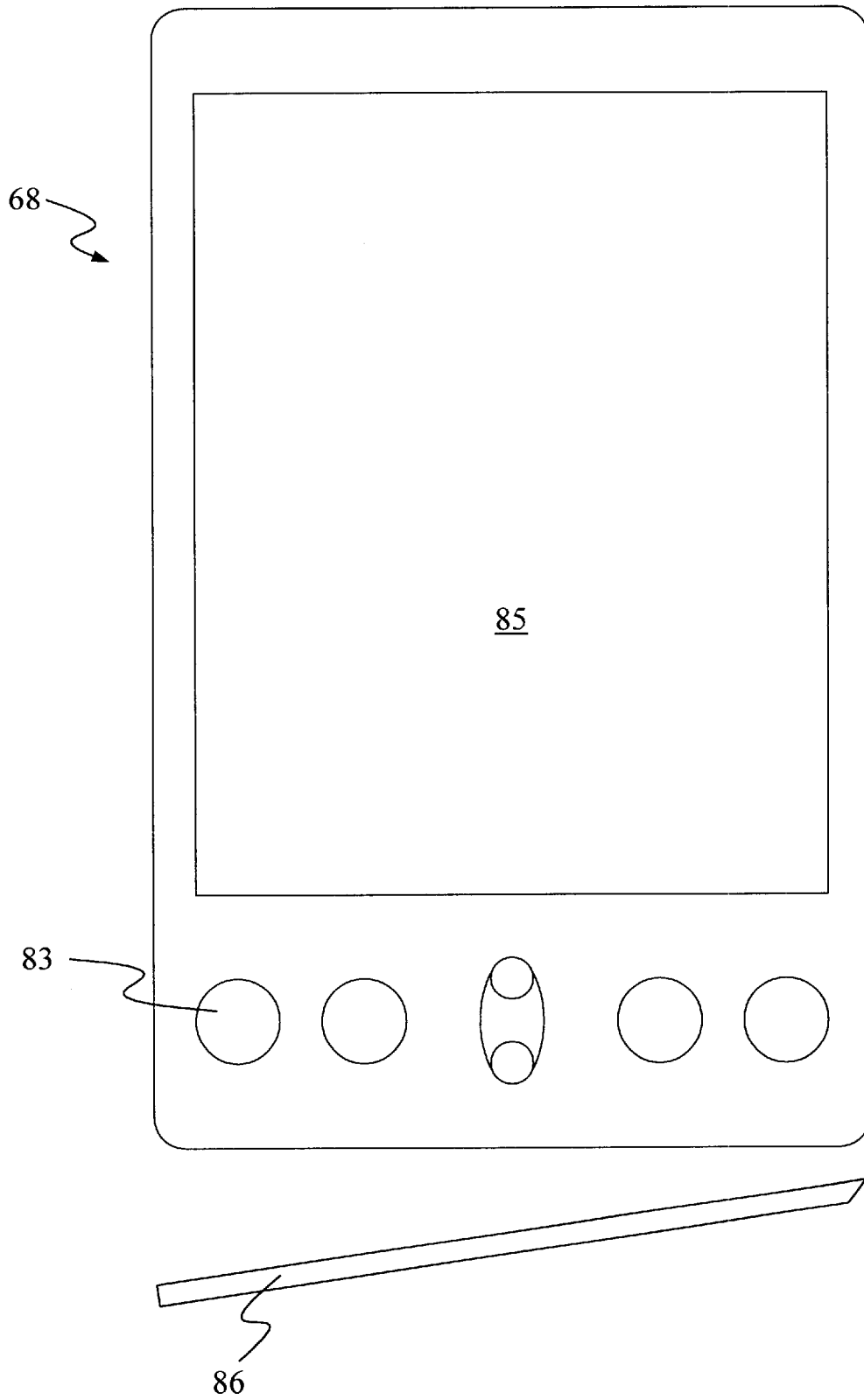


FIG. 2

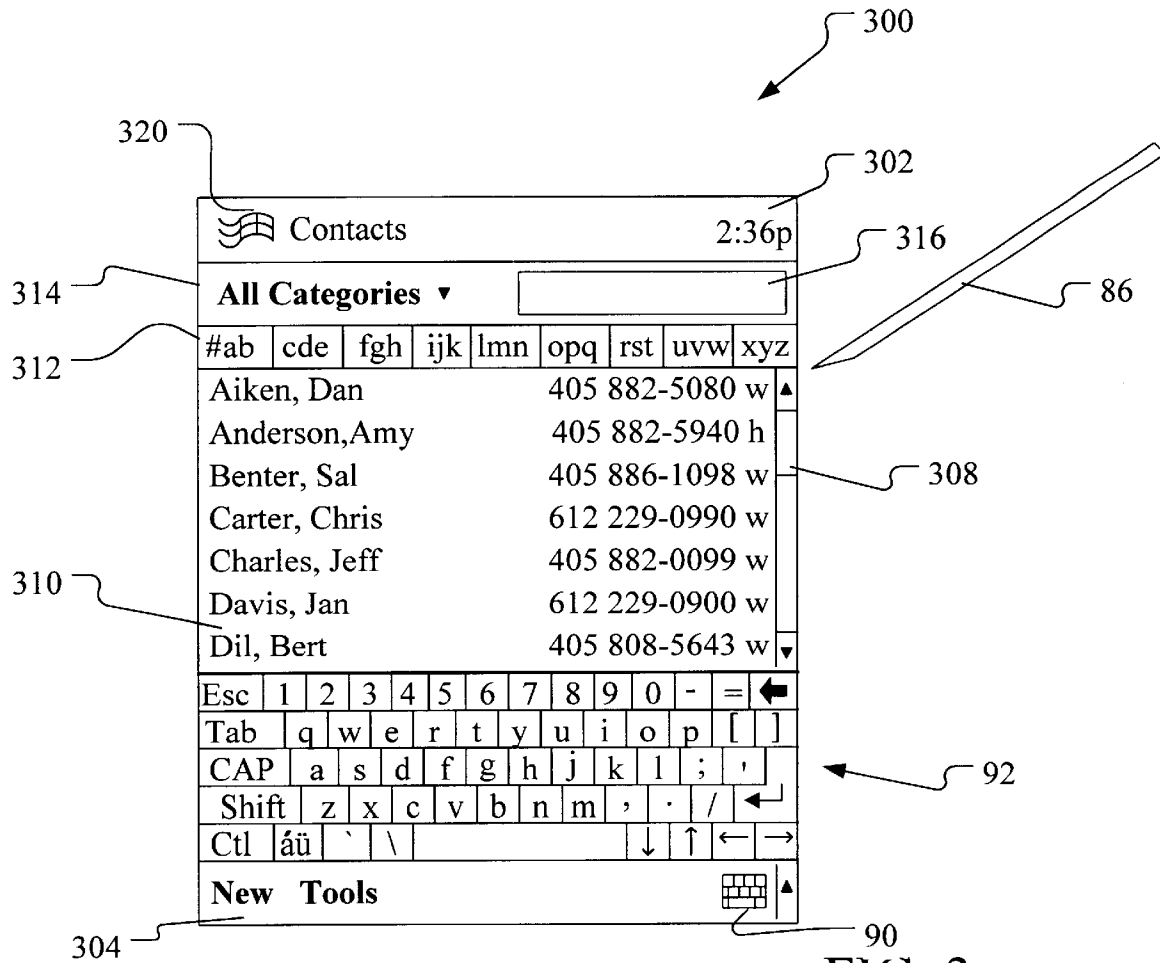
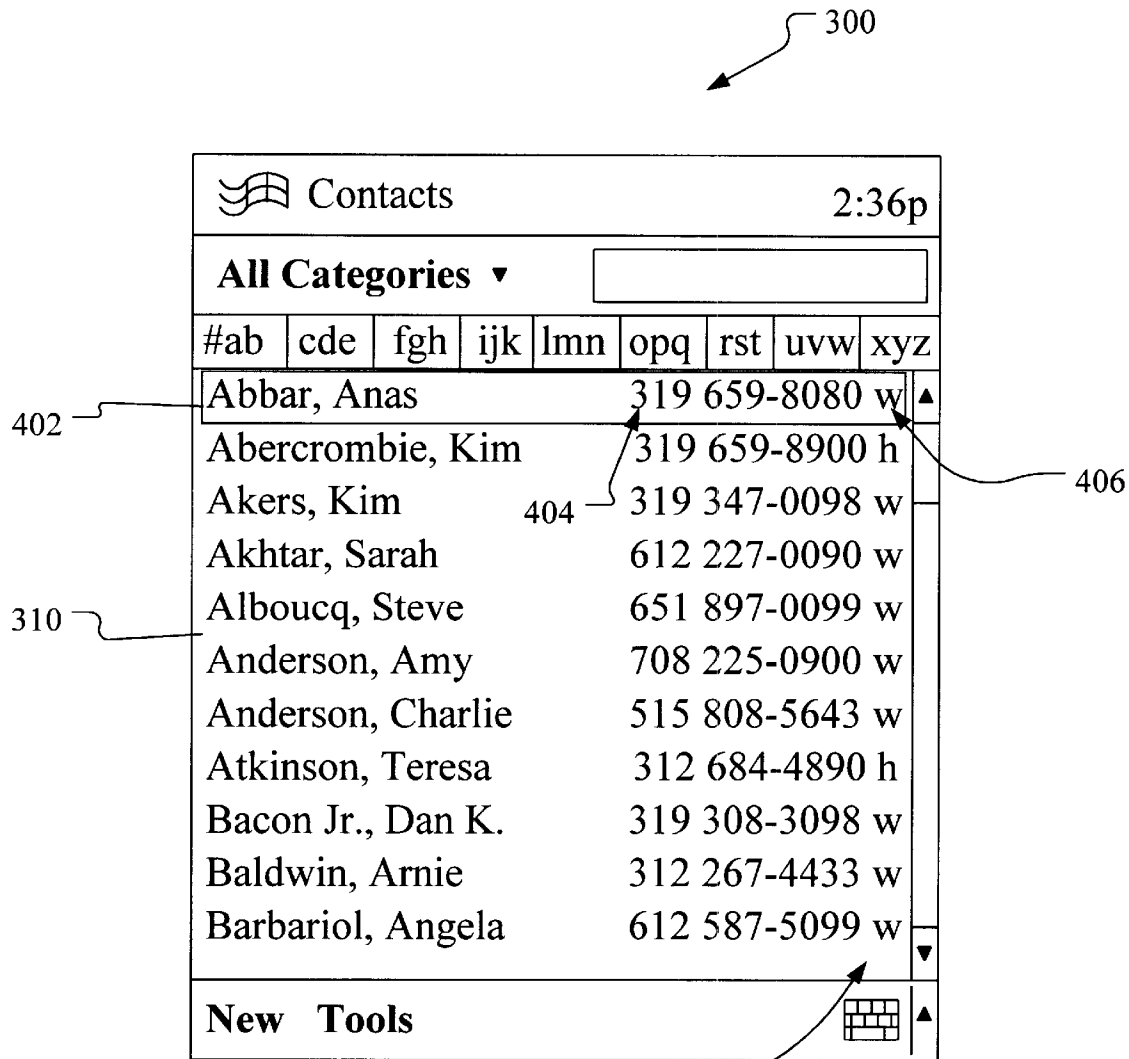


FIG. 3



420 FIG. 4

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