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(12) **United States Patent**  
**Ording**

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(54) **INTERFACE PROVIDING CONTINUOUS  
FEEDBACK ON TASK PROGRESS IN A  
COMPUTER OPERATING SYSTEM**

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(75) Inventor: **Bas Ording**, Sunnyvale, CA (US)

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(73) Assignee: **Apple Computer Inc.**, Cupertino, CA  
(US)

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(\*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 521 days.

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(21) Appl. No.: **09/754,052**

*Primary Examiner*—Almis R. Jankus

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(74) *Attorney, Agent, or Firm*—Burns Doane Swecker &  
Mathis, LLP

(65) **Prior Publication Data**

(57) **ABSTRACT**

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**Related U.S. Application Data**

A user interface provides continuous feedback to a user  
regarding progress toward completion of a task being moni-  
tored in a status dialogue window. In one embodiment, the  
progress is indicated by a graphic element such as a progress  
bar, whose size is increased to fill a space of predetermined  
area by an amount corresponding to the percentage of the  
task completed, and a user is provided with feedback indi-  
cated that the computer operating system is performing the  
desired task by continuously varying the appearance of the  
progress bar. This provides the user with intuitive feedback  
that, regardless of any delays in the increase of the progress  
bar's size, the computer is continuing to perform the desired  
task.

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2000.

(51) **Int. Cl.**<sup>7</sup> ..... **G06T 13/00**

(52) **U.S. Cl.** ..... **345/440; 345/772**

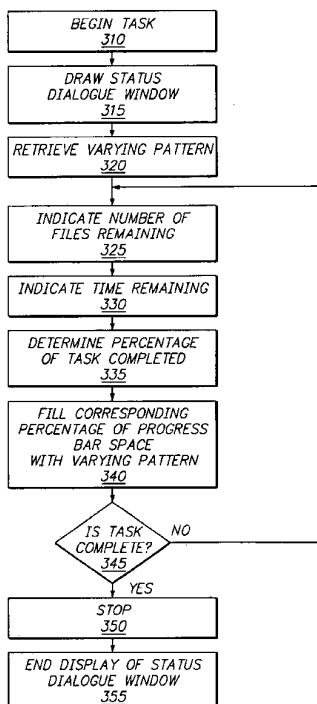
(58) **Field of Search** ..... 345/772, 213,  
345/440

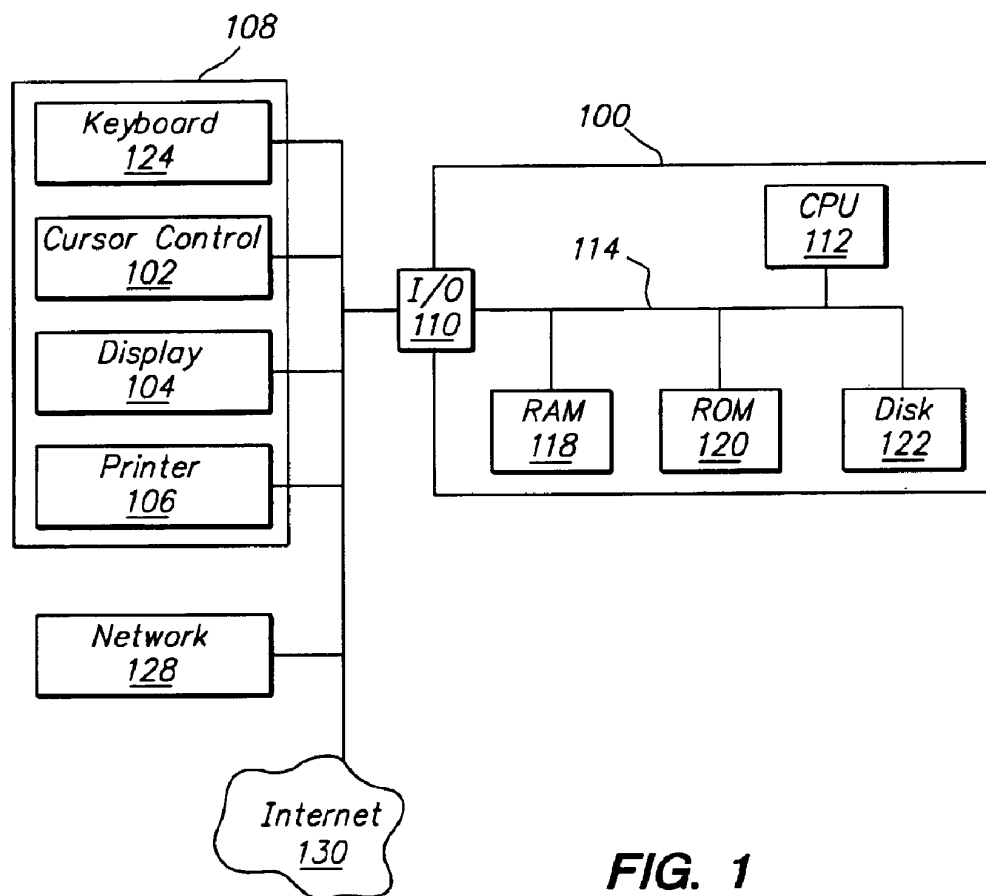
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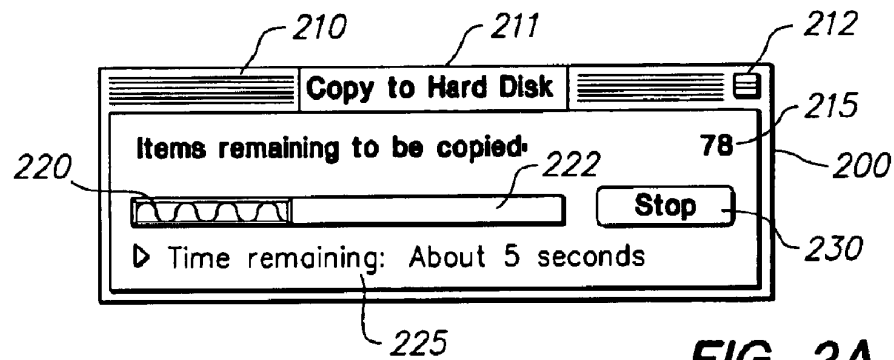
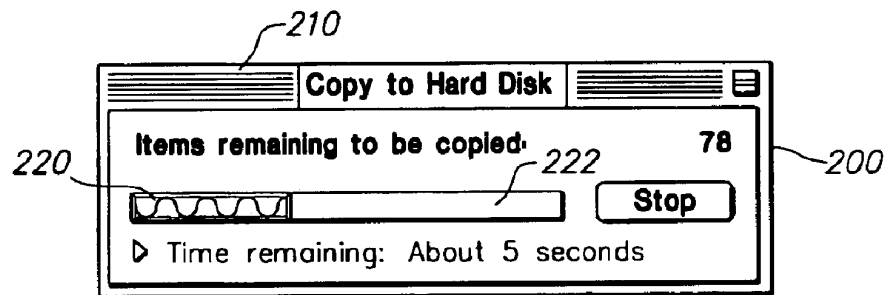
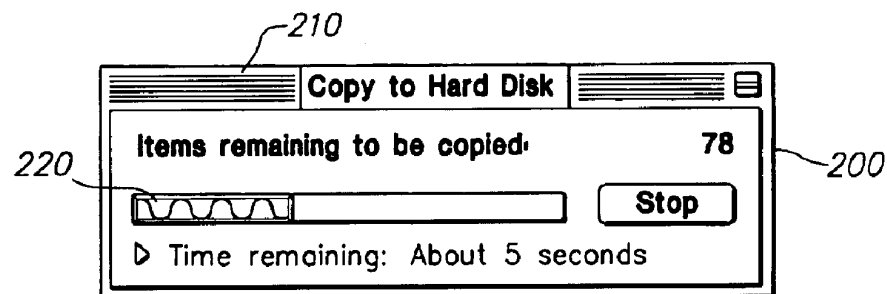
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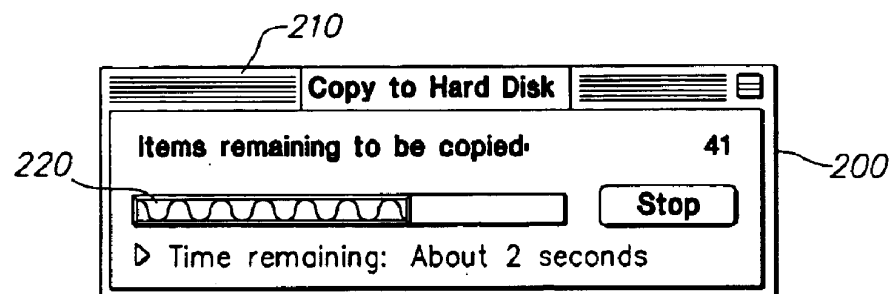
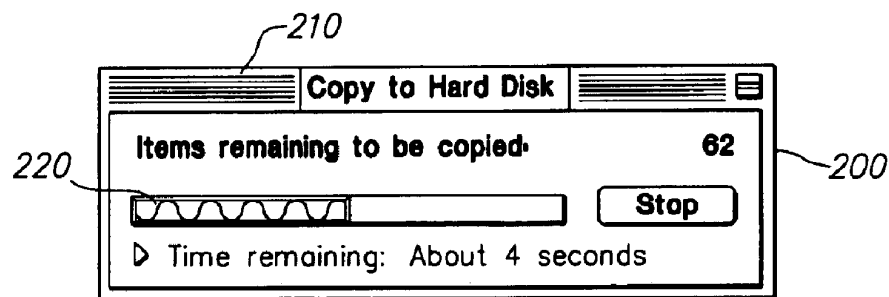
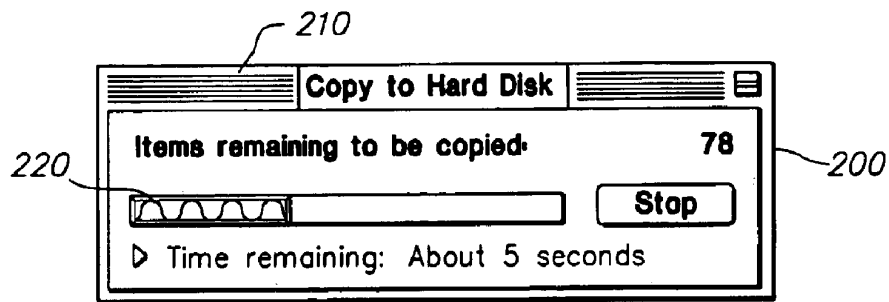
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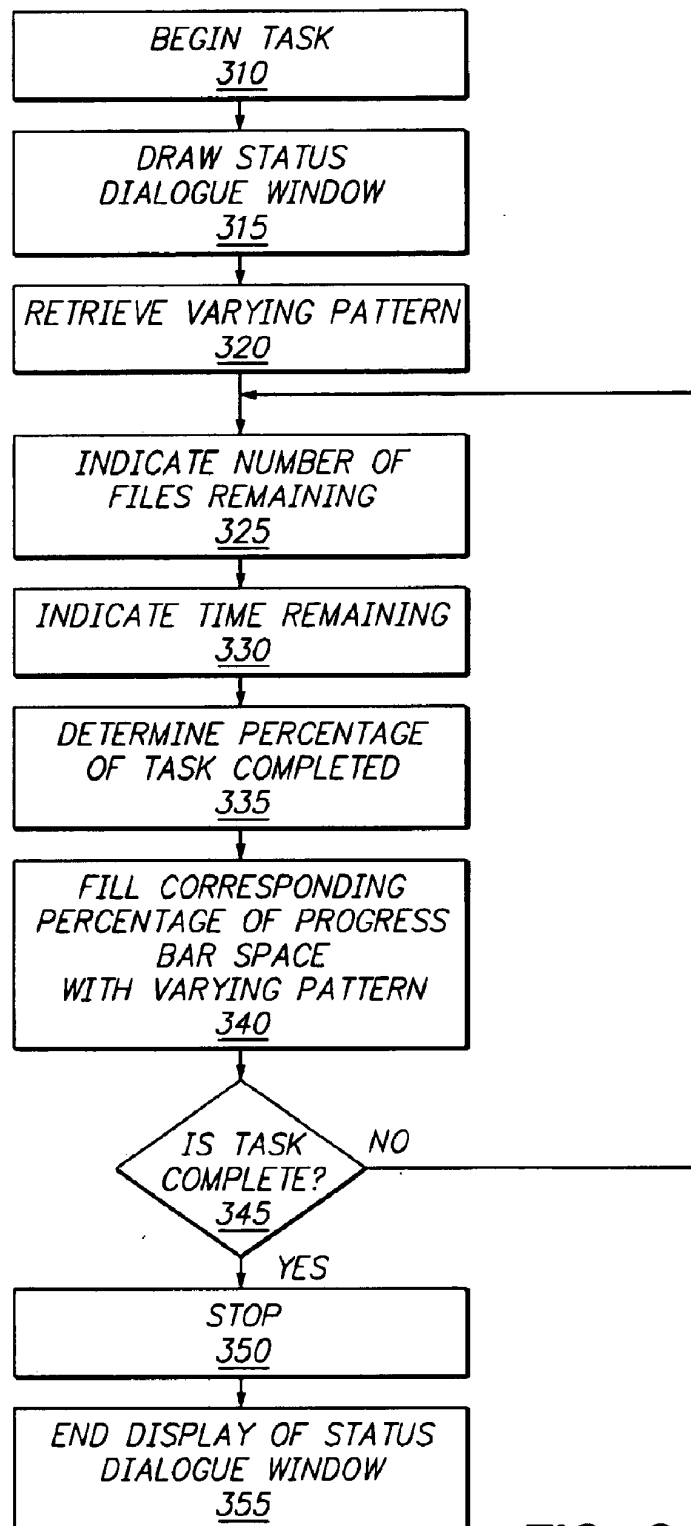
**22 Claims, 4 Drawing Sheets**



**FIG. 1**

**FIG. 2A****FIG. 2B****FIG. 2C**



**FIG. 3**

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