



US006927770B2

(12) **United States Patent**
Ording

(10) **Patent No.:** **US 6,927,770 B2**
(45) **Date of Patent:** **Aug. 9, 2005**

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

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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

(22) Filed: **Jan. 5, 2001**

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

(65) **Prior Publication Data**

US 2001/0055017 A1 Dec. 27, 2001

(57) **ABSTRACT**

Related U.S. Application Data

(60) Provisional application No. 60/174,613, filed on Jan. 5, 2000.

A user interface provides continuous feedback to a user regarding progress toward completion of a task being monitored 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 indicated 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.

(51) **Int. Cl.⁷** **G06T 13/00**

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

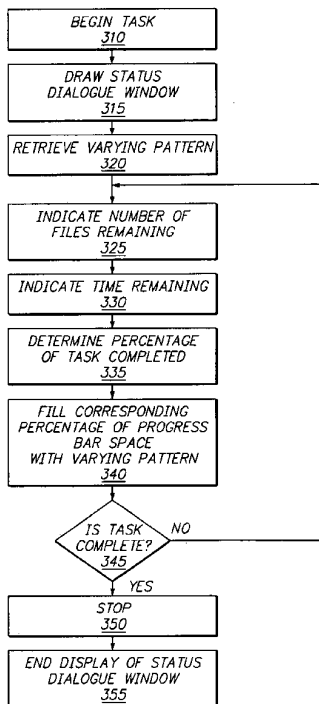
(58) **Field of Search** **345/772, 213, 345/440**

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22 Claims, 4 Drawing Sheets



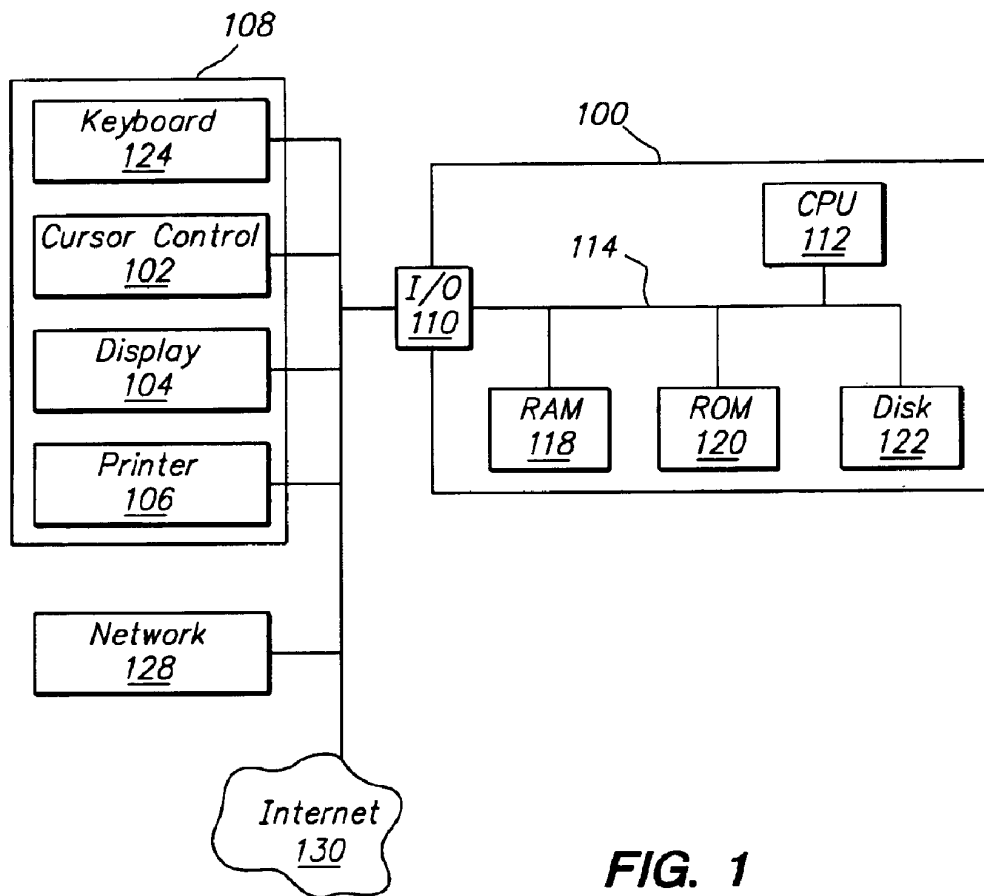
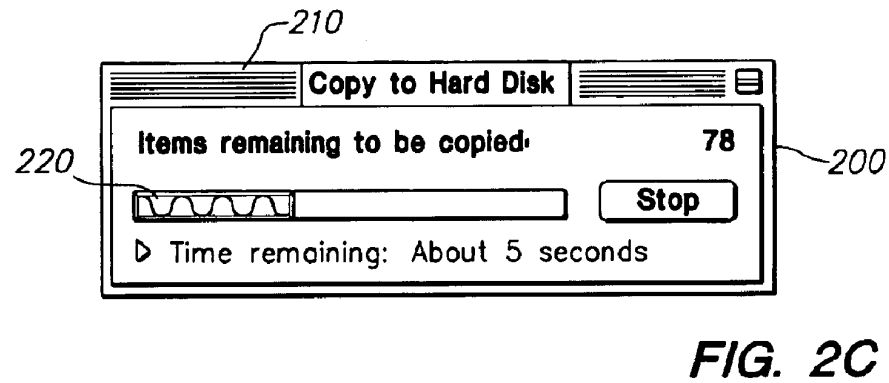
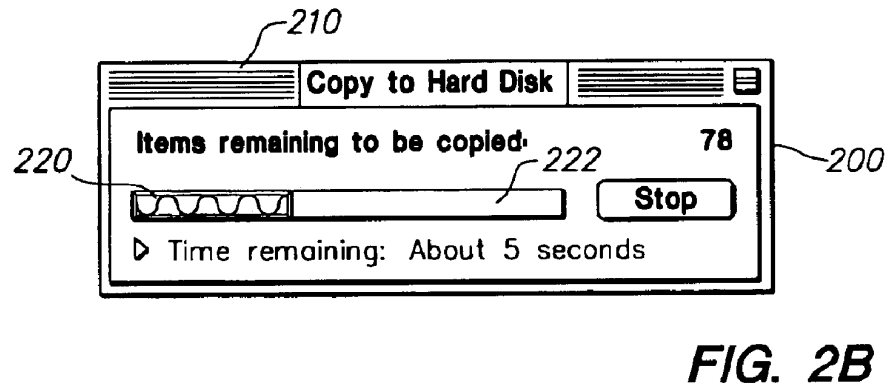
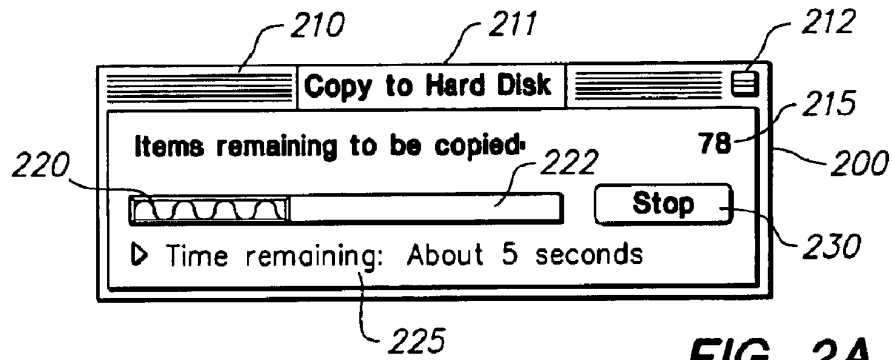


FIG. 1



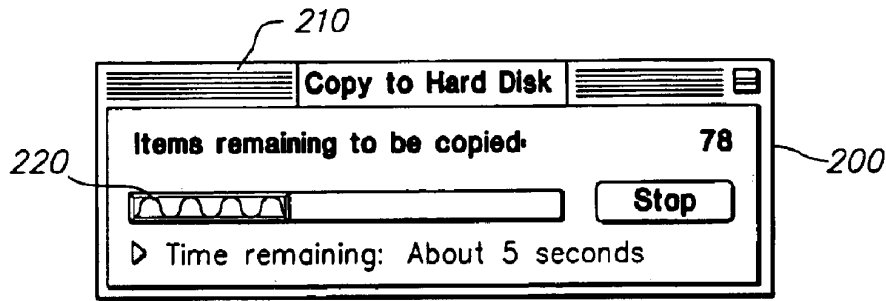


FIG. 2D

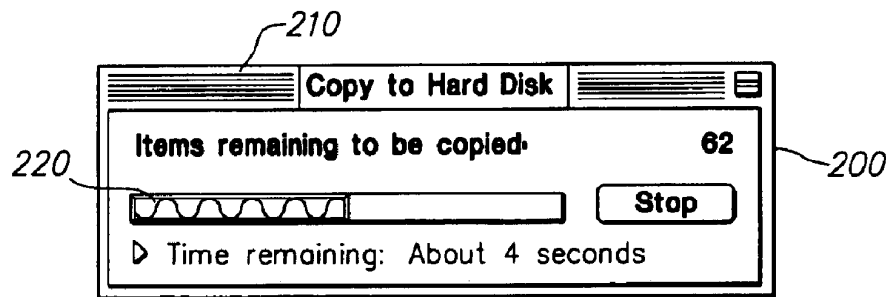


FIG. 2E

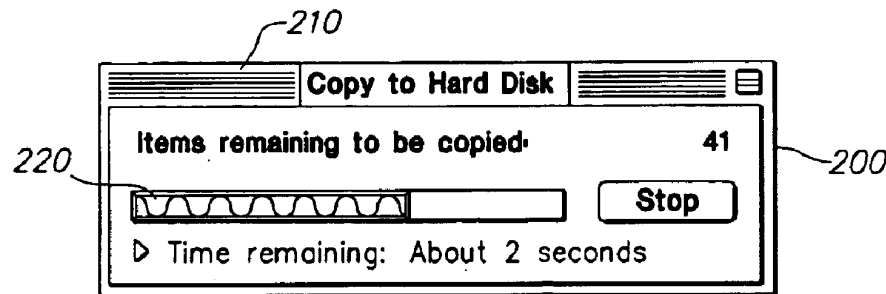


FIG. 2F

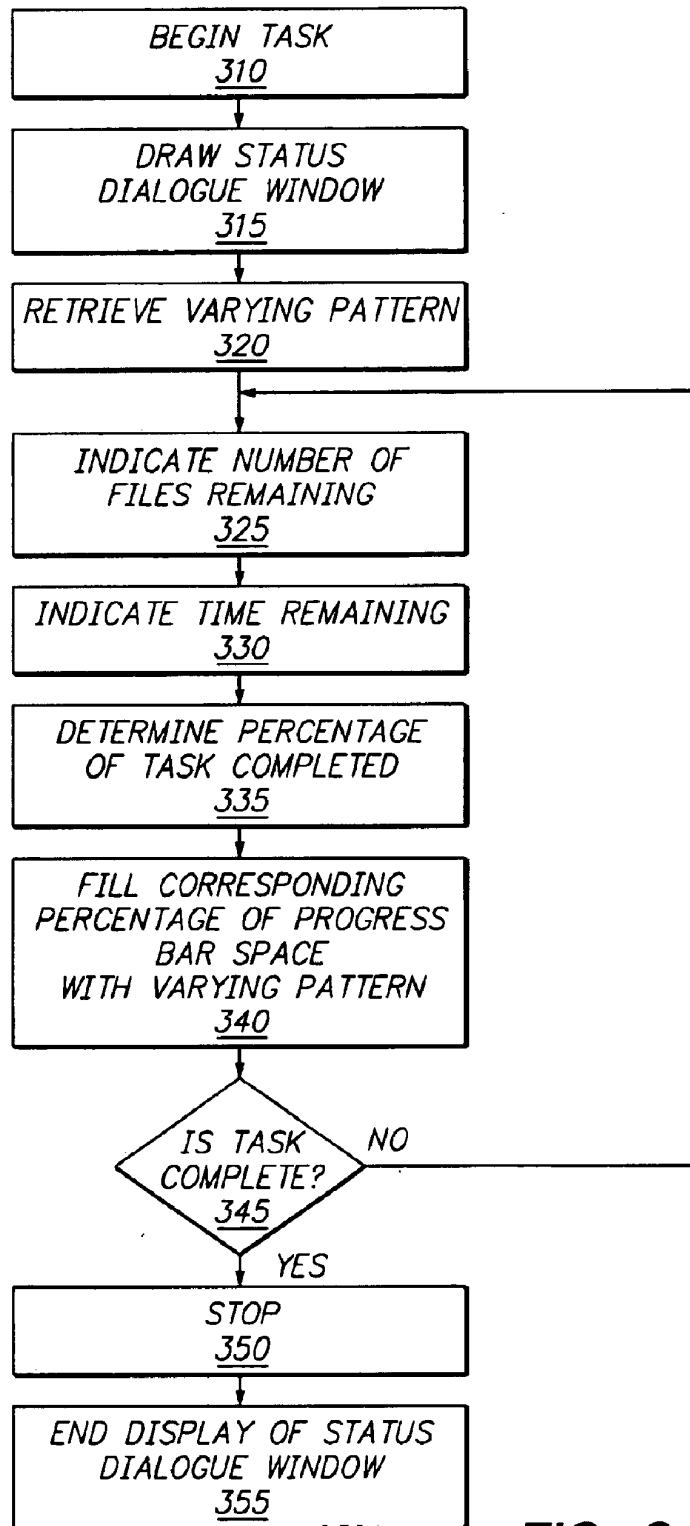


FIG. 3

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