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Price

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(54) **STREAMING MEDIA BUFFERING SYSTEM**

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(US)

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

This patent is subject to a terminal dis-
claimer.

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(65) **Prior Publication Data**

US 2010/0235536 A1 Sep. 16, 2010

Salehi et al., "Supporting Stored Video: Reducing Rate Variability and End-to-End Resource Requirements through Optimal Smoothing," IEEE/ACM Transactions on Networking, vol. 6, Issue 4, p. 397-410, Aug. 1998.

Related U.S. Application Data

(Continued)

(63) Continuation of application No. 10/893,814, filed on Jul. 19, 2004, now Pat. No. 7,716,358, which is a continuation-in-part of application No. 09/819,337, filed on Mar. 28, 2001, now Pat. No. 6,766,376.

(60) Provisional application No. 60/231,997, filed on Sep. 12, 2000.

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(51) **Int. Cl.**

G06F 15/16 (2006.01)

(52) **U.S. Cl.** **709/231**

(58) **Field of Classification Search** 709/230,
709/231

See application file for complete search history.

(57) **ABSTRACT**

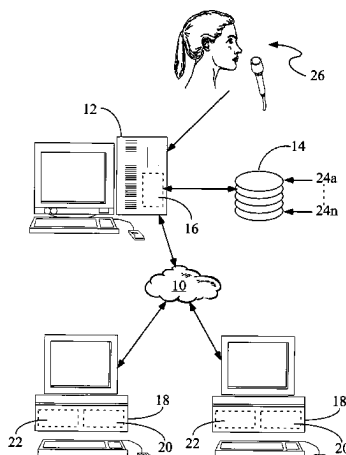
Streaming media, such as audio or video files, is sent via the Internet. The media are immediately played on a user's computer. Audio/video data is transmitted from the server more rapidly than it is played out by the user system. The audio/video data in the user buffer accumulates; and interruptions in playback as well as temporary modem delays are avoided.

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28 Claims, 3 Drawing Sheets



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Fig. 1

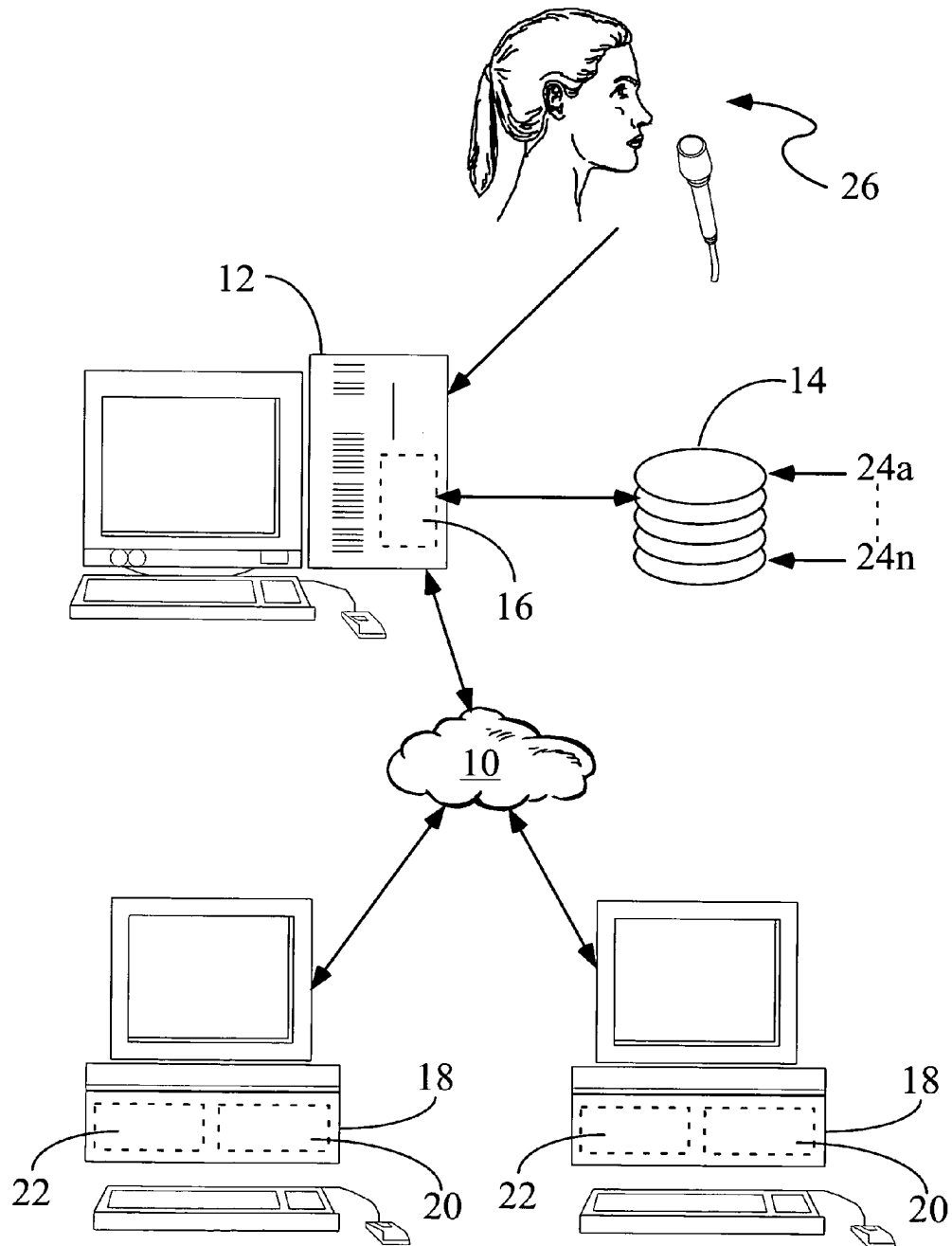


Fig. 2

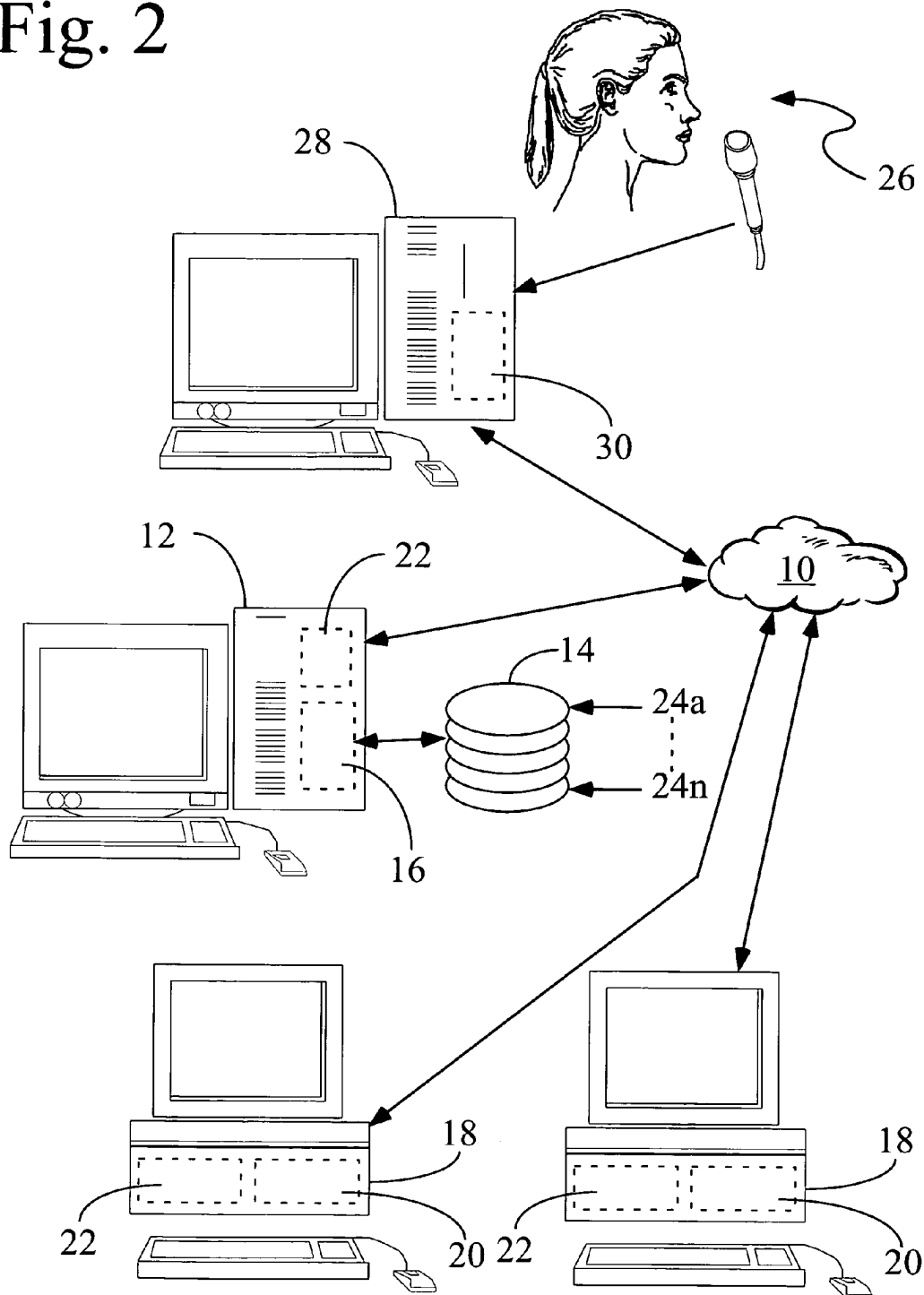
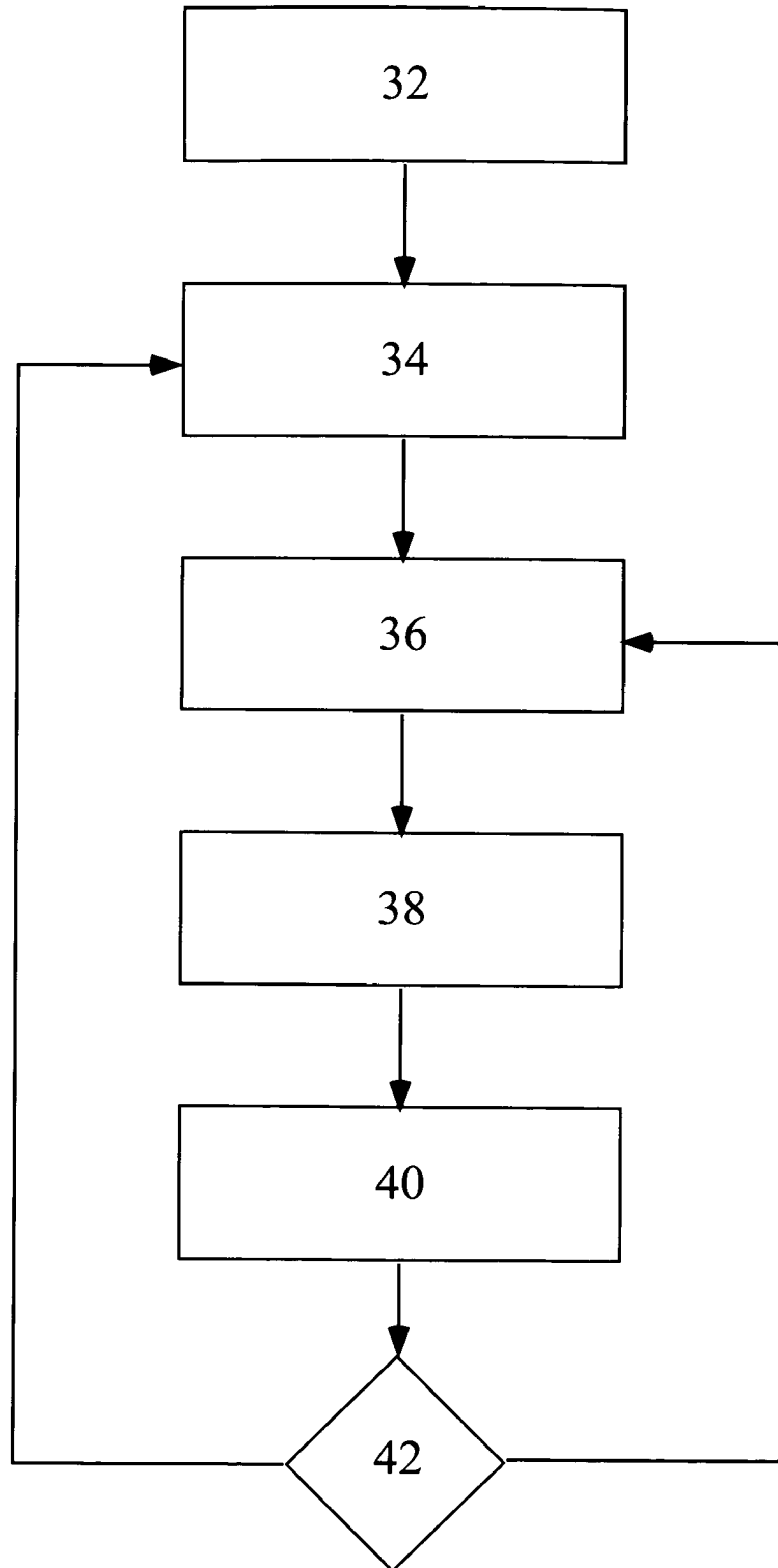


Fig. 3



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