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

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(54) **METHOD AND APPARATUS FOR
PREPROCESSING AND POSTPROCESSING
CONTENT IN AN INTERACTIVE
INFORMATION DISTRIBUTION SYSTEM**

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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 998 days.

OTHER PUBLICATIONS

(21) Appl. No.: **09/772,288**

U.S. Appl. No. 08/984,710, filed Dec. 3, 1997, entitled: System for Interactively Distributing Information Services.

(22) Filed: **Jan. 29, 2001**

U.S. Appl. No. 09/772,287, filed Jan. 29, 2001, entitled: Method and Apparatus for Content Distribution Via Non-Homogeneous Access Networks.

(65) **Prior Publication Data**

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Bonisch H et al: "Server side compresslets for Internet multimedia streams" Multimedia Computing and Systems, 1999, IEEE International Conference on Florence, Italy Jun. 7-11, 1999, Los Alamitos, CA, USA, IEEE Comput. Soc. US, vol. 2, Jun. 7, 1999 (Jun. 7, 1999), pp. 82-86, XP010519360 ISBN: 0-7695-0253-9.

Related U.S. Application Data

(60) Provisional application No. 60/178,795, filed on Jan. 28, 2000, provisional application No. 60/178,809, filed on Jan. 28, 2000, provisional application No. 60/178,810, filed on Jan. 28, 2000, provisional application No. 60/178,857, filed on Jan. 28, 2000.

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(51) **Int. Cl.**
H04N 7/173 (2006.01)
G06F 15/16 (2006.01)

(57) **ABSTRACT**

(52) **U.S. Cl.** **725/86; 725/88; 725/91;**
725/98; 709/218; 709/219; 709/231

A method and apparatus for preprocessing and preprocessing content in an interactive information distribution system. Content is retrieved from a storage medium and encapsulated in accordance to an Internet Protocol (IP) format. The encapsulated content is then uploaded for storage in a stream caching server and for future streaming of content to different types of access networks.

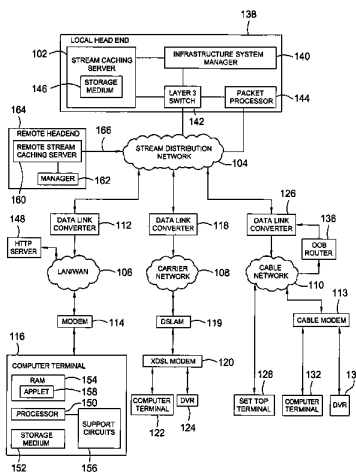
(58) **Field of Classification Search** **725/86,**
725/87, 88, 91, 98; 709/218, 219, 231
See application file for complete search history.

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27 Claims, 6 Drawing Sheets



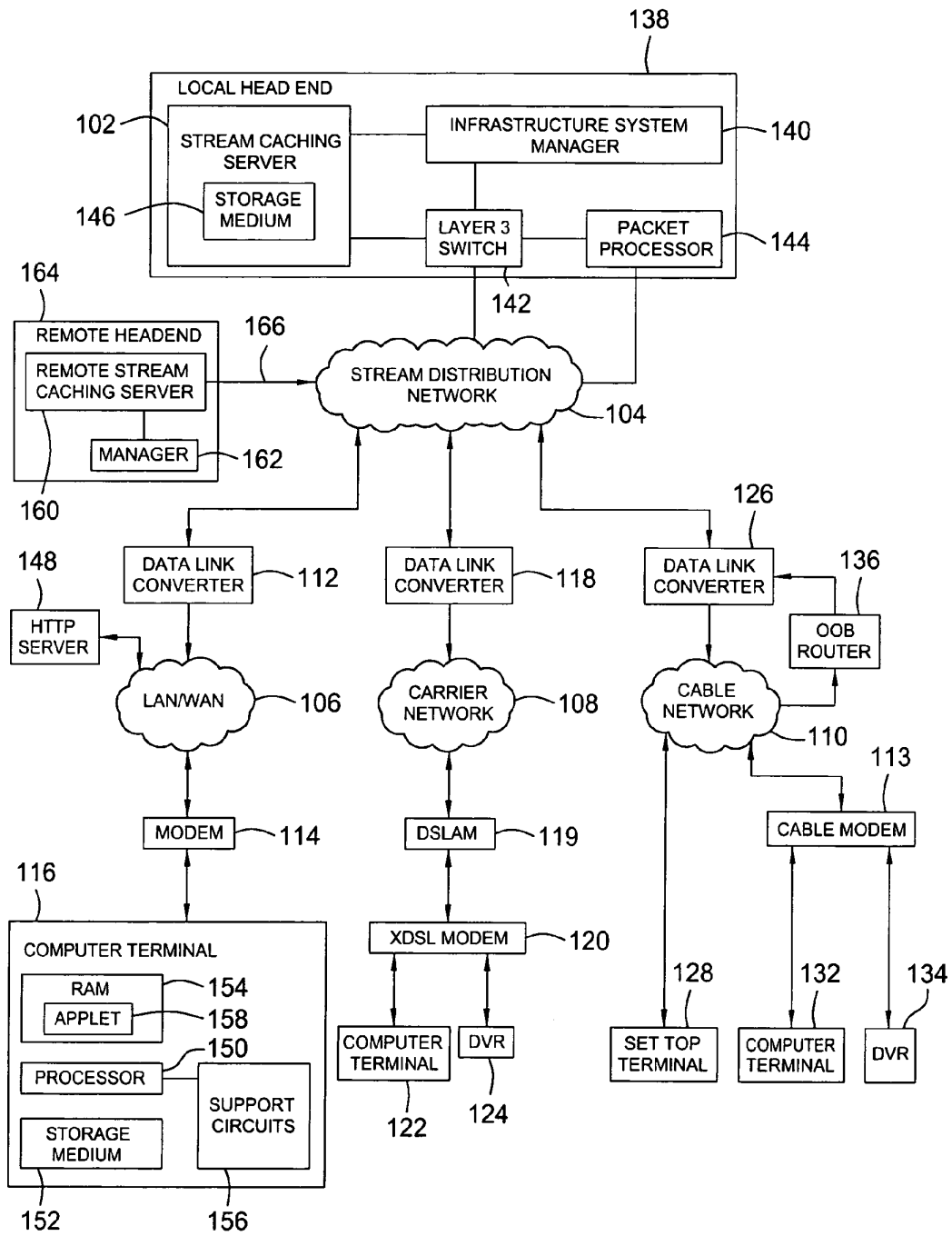


FIG. 1

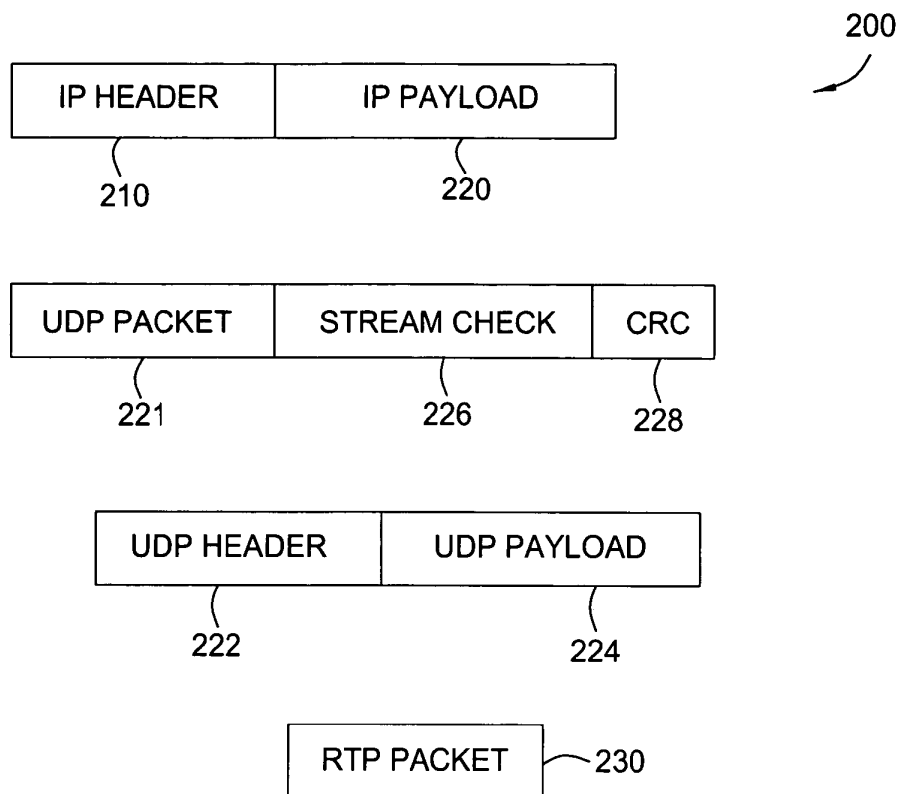


FIG. 2A

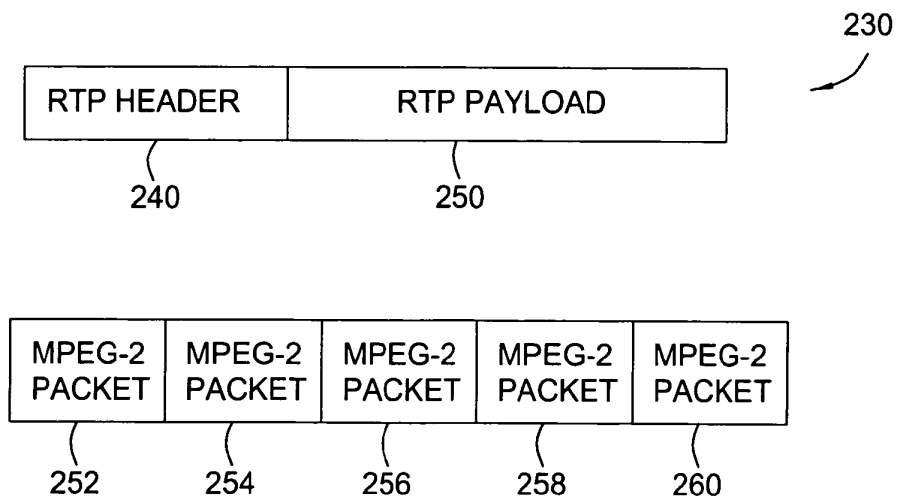


FIG. 2B

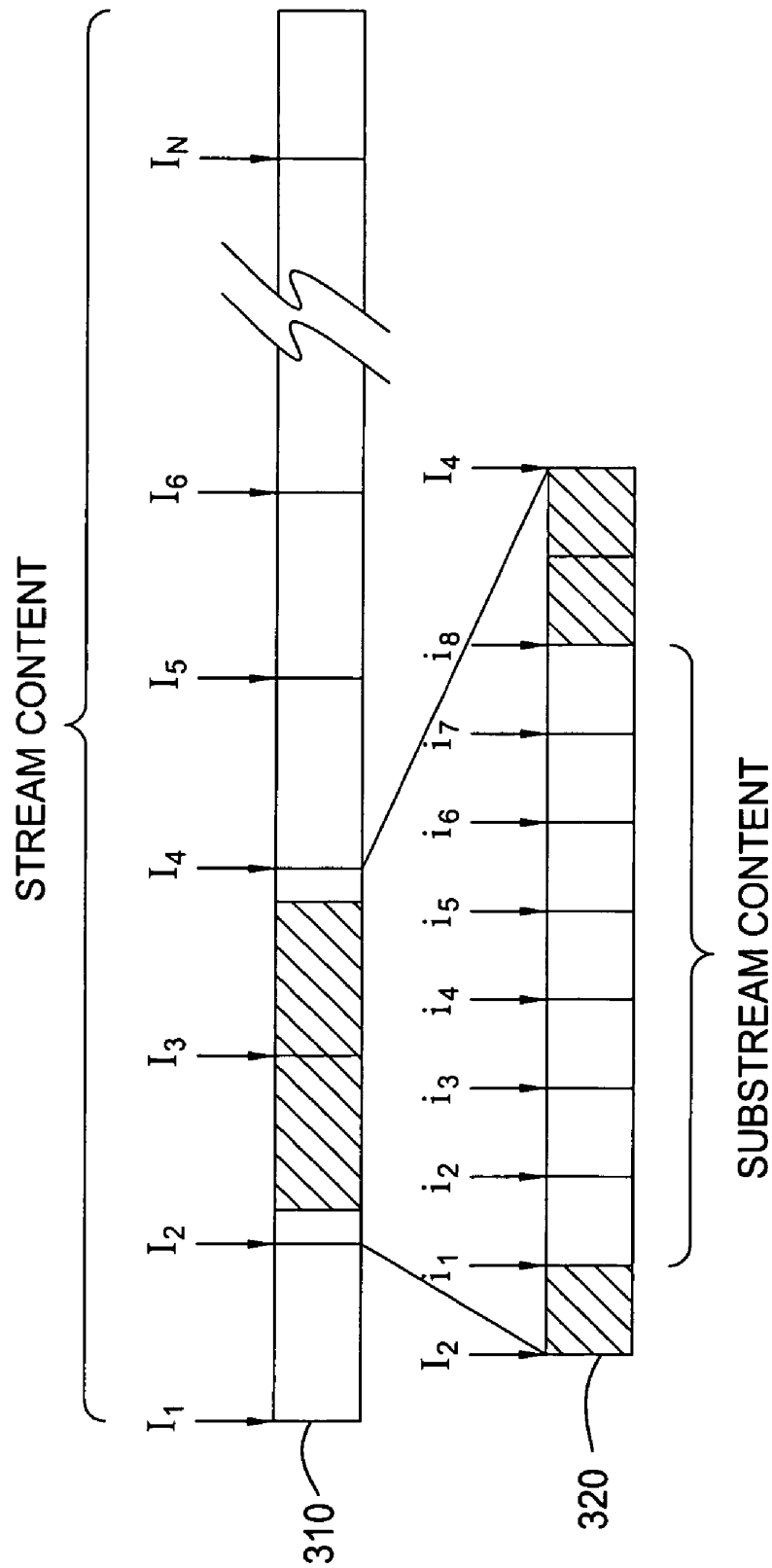


FIG. 3

400

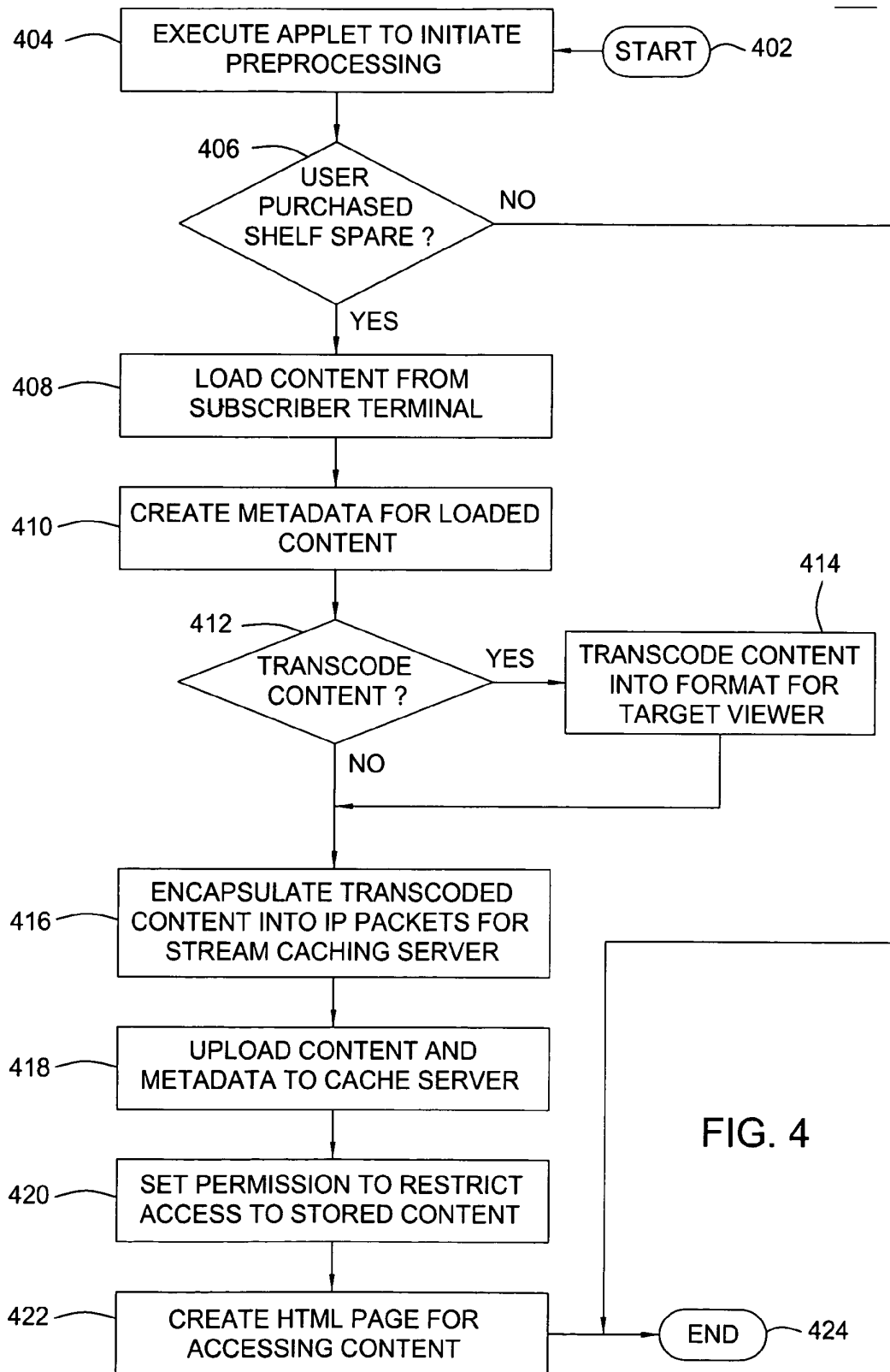


FIG. 4

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