Opposition to Petitions for *Inter Partes* Review of

U.S. Pat. 6,108,686
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Patent Owner Black Hills Media, LLC

DOCKET ALARM
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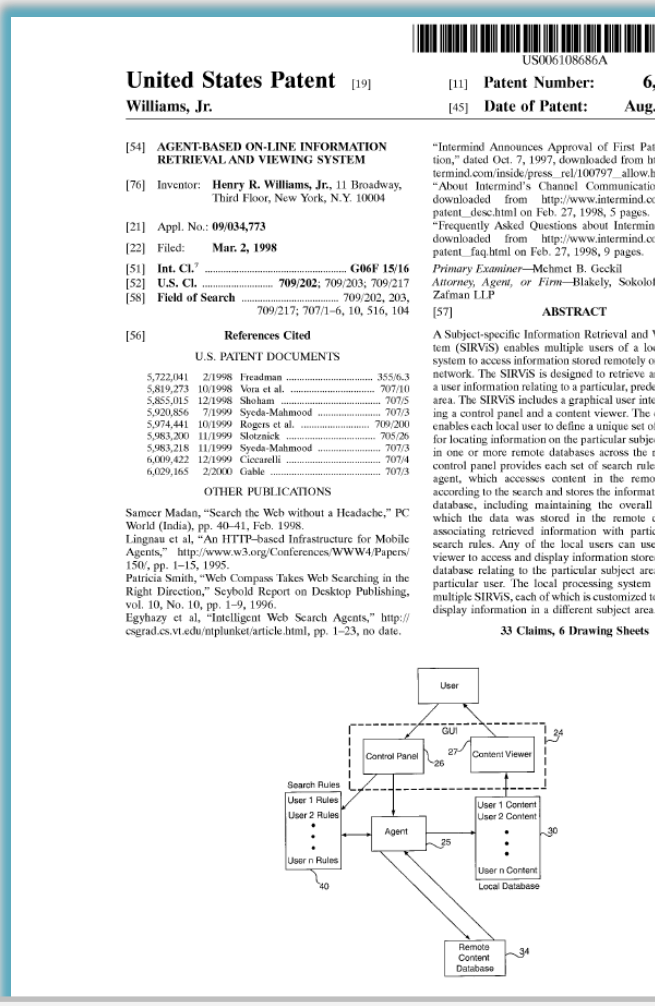
U.S. Patent No. 6, 108,686

- **Henry Williams Jr.**
- **Filed: March 2, 1998**
- **Issued: August 22, 2000**
- **Challenged Claims: 1, 2, 20, 23, 29 and 30**



US006108686A

United States Patent [19]
Williams, Jr.

[11] **Patent Number: 6,**
[45] **Date of Patent: Aug.**

[54] **AGENT-BASED ON-LINE INFORMATION RETRIEVAL AND VIEWING SYSTEM**

[76] Inventor: **Henry R. Williams, Jr.**, 11 Broadway, Third Floor, New York, N.Y. 10004

[21] Appl. No.: **09/034,773**

[22] Filed: **Mar. 2, 1998**

[51] **Int. Cl.**[7] **G06F 15/16**
[52] **U.S. Cl.** **709/202**; 709/203; 709/217
[58] **Field of Search** 709/202, 203, 709/217; 707/1–6, 10, 516, 104

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Primary Examiner—Mehmet B. Geckil
Attorney, Agent, or Firm—Blakely, Sokolof Zafman LLP

[57] **ABSTRACT**

A Subject-specific Information Retrieval and V tem (SIRViS) enables multiple users of a lo system to access information stored remotely o network. The SIRViS is designed to retrieve a a user information relating to a particular, prede area. The SIRViS includes a graphical user inte ing a control panel and a content viewer. The enables each local user to define a unique set o for locating information on the particular subje in one or more remote databases across the control panel provides each set of search rule agent, which accesses content in the remo according to the search and stores the informat database, including maintaining the overall which the data was stored in the remote associating retrieved information with partic search rules. Any of the local users can use viewer to access and display information store database relating to the particular subject are particular user. The local processing system multiple SIRViS, each of which is customized t display information in a different subject area.

33 Claims, 6 Drawing Sheets

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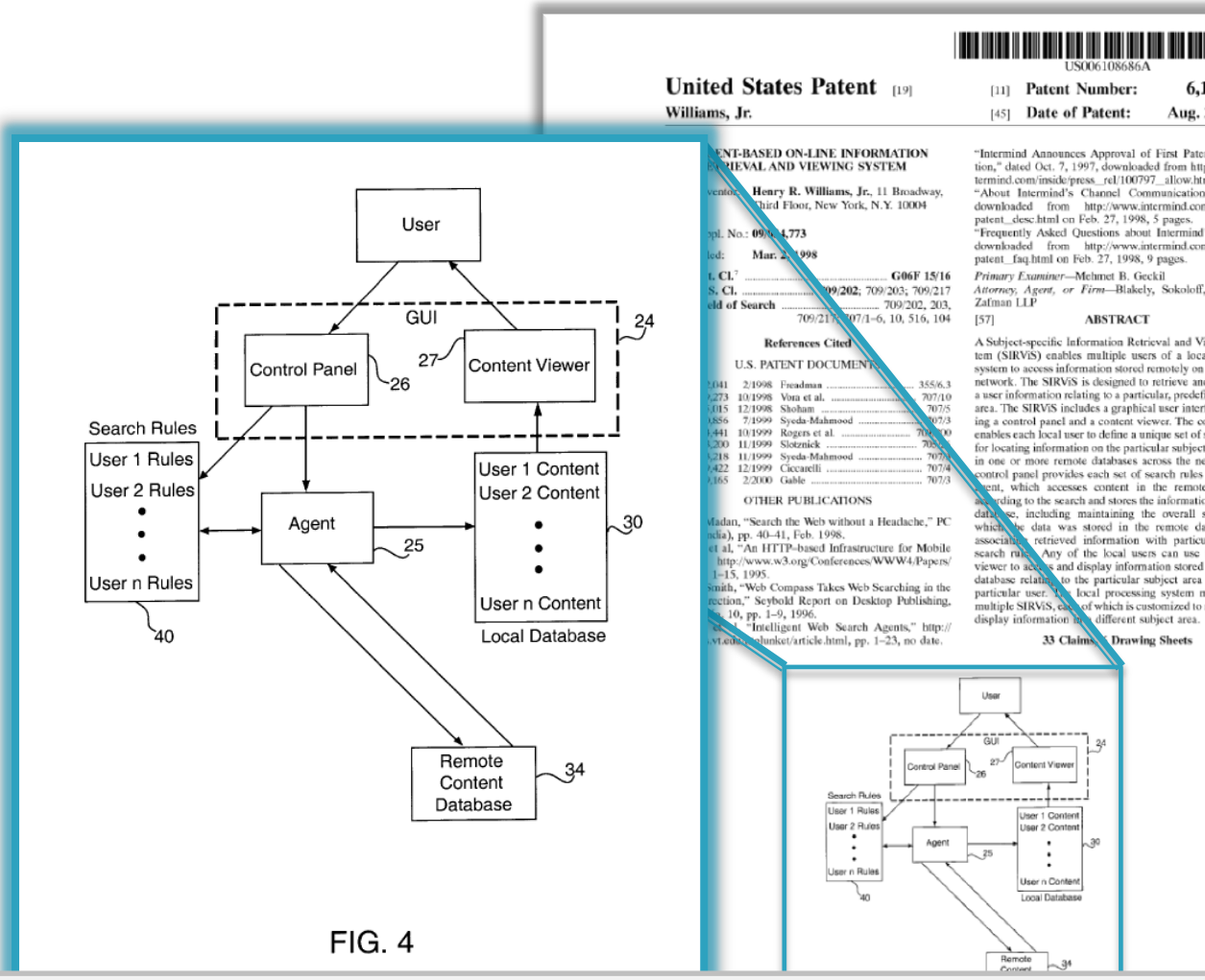

FIG. 4

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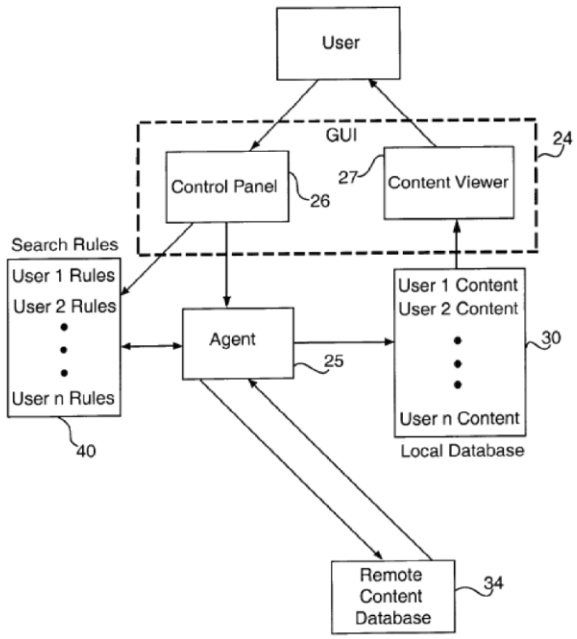

FIG. 4

- **SIRViS: Subject-Specific Information Retreival and Viewing System**
  - ***search agent*** **to locate a retrieve from remote s**
  - **single, predefined subj**
  - **subject defined by *sear***

***See* Pa**

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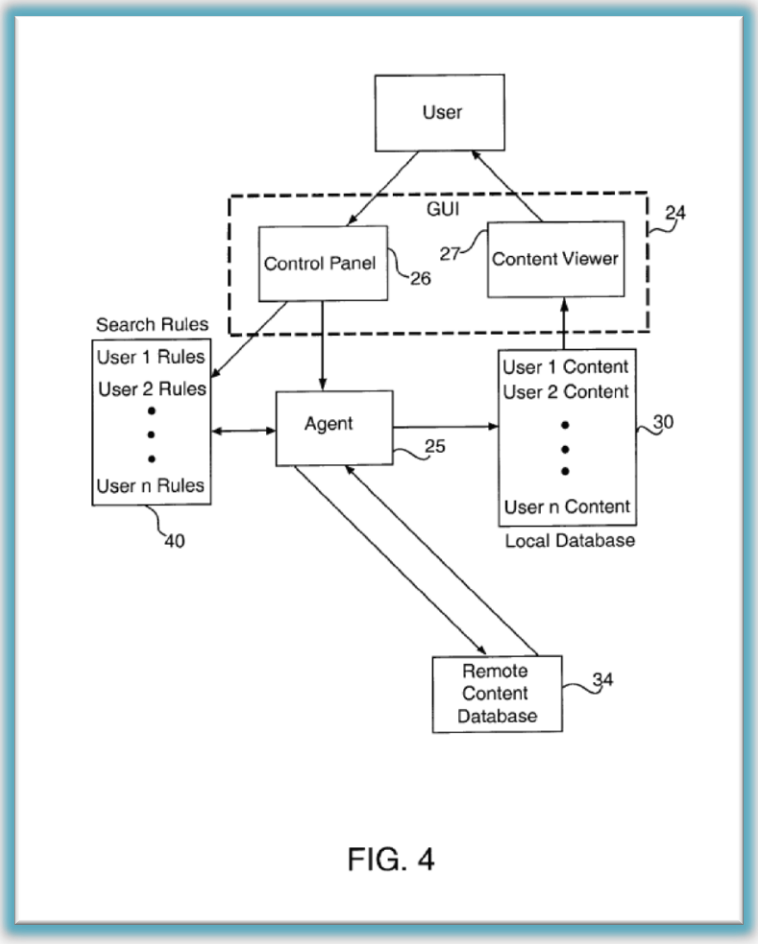

FIG. 4

BACKGROUND OF THE INVENTION

A number of technologies are currently available t
consumers to access information stored remotely
works such as the Internet, corporate intranet
Browsers, for example, are a well-known class of s
applications which enable computer users to do
hypertext pages and other types of data from the Worl
Web and other remote sources. Another, more r
developed information access technology is con
referred to as "push" technology. With push techno
remote server generally gathers information on
topics from remote databases, packages the informati
subject groupings called "channels", and autom
downloads selected channels to the user's comput
user does not need to search for or request the infor
The retrieved information may be automatically
locally on the user's computer, such that the user can
the information off-line at a time of his own choosi

***See* Ex. 1001 at 1:11-27; *See also* Paper**

In contrast with conventional information
techniques, such as Web browsers and push technol
search agent stores information in the local databas
the same organizational structure in which the infor
was stored in the remote database. This structure is s
in advance to be suitable for effectively conveying in
tion on the predefined subject area to a user in a form
can be easily assimilated. The present invention

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