

United States Patent No. 9,769,314

1[Pre(i)] A method for retrieving information from an information source, the information source being periodically updated with current information,	6[Pre(i)] A system for retrieving information from an information source, the information source being periodically updated with current information,	11[Pre(i)] A method for retrieving desired information from an information source of a plurality of information sources, the information source being periodically updated with current information,	19[Pre] An information-retrieval system for retrieving information from an information source, the information source being periodically updated with current information, comprising:
1[Pre(ii)] over a network, by speech commands received from a particular user of a plurality of users provided by the particular user via an electronic-communication device, and	6[Pre(ii)] over a network, by speech commands received from a particular user of a plurality of users provided by the particular user via an electronic-communication device, and	11[Pre(ii)] over a network, by speech commands received from a particular user of a plurality of users,	
1[Pre(iii)] wherein each of the plurality of users has a respective electronic-communication device, said method comprising:	6[Pre(iii)] wherein each of the plurality of users has a respective electronic-communication device, said system comprising:	11[Pre(iii)] wherein each of the plurality of users has a respective electronic-communication device, said method comprising:	19[A(i)(b)] wherein each of the plurality of users has a respective electronic-communication device
1(a)[(i)(A)] receiving a speech command from each of the plurality of	6(a)[(i)(B)] the speech-recognition engine adapted to receive a	11(a)[(i)(A)] receiving a speech command, from each of the plurality of	19(a)[(i)(B)] adapted to receive a speech command from a particular user of a

users provided via the respective electronic-communication device,	speech command from each of the plurality of users provided via the respective electronic-communication device,	users via the respective electronic-communication device,	plurality of users via an electronic-communication device to access desired information,
1(a)[(i)(B)] by a speech-recognition engine coupled to a media server,	6(a)[(i)(A)] a speech-recognition engine including a processor and coupled to a media server,	11(a)[(i)(B)] the speech-recognition engine coupled to a media server,	19(a)[(i)(A)] a speech-recognition engine coupled to a processor and a media server and
1(a)[(ii)] the media server configured to identify and access the information source via the network,	6(a)[(ii)] the media server configured to identify and access the information source via the network,	11(a)[(ii)] the media server configured to identify and access an information source from the plurality of information sources via the network,	19(a)[(ii)] the media server configured to identify and access an information source from a plurality of information sources via the network,
1(a)[(iii)] the speech-recognition engine adapted to select speech-recognition grammar established to correspond to the speech commands received from the plurality of users and assigned to a desired search;	6(a)[(iii)] the speech-recognition engine adapted to select speech-recognition grammar established to correspond to the speech commands received from the plurality of users and assigned to a desired search;	11(a)[(iii)] the speech-recognition engine adapted to select speech-recognition grammar established to correspond to the speech commands received, from certain of the plurality of users and assigned to a desired search;	19(a)[(iii)] the speech-recognition engine adapted to select speech-recognition grammar established to correspond to the speech commands received, the speech-recognition grammar associated with the desired information;
1(b)[(i)] selecting, by the media server, at least one	6(b)[(i)] the media server further configured to	11(b)[(i)] selecting, by the media server, at least one	19(b)[(i)] the media server, adapted to select at

information-source-retrieval instruction corresponding to the speech-recognition grammar established for a particular speech command,	select at least one information-source-retrieval instruction corresponding to the speech-recognition grammar established for a particular speech command,	information-source-retrieval instruction corresponding to the speech-recognition grammar established for a particular speech command,	least one information-source-retrieval instruction corresponding to the speech-recognition grammar established for a particular speech command,
1(b)[(ii)] the at least one information-source-retrieval instruction stored in a database associated with the media server and adapted to retrieve information;	6(b)[(ii)] the at least one appropriate information-source-retrieval instruction stored in a database associated with the media server and adapted to retrieve information;	11(b)[(ii)] the at least one information-source-retrieval instruction stored in a database associated with the media server and adapted to retrieve information;	19(b)[(ii)] the at least one information-source-retrieval instruction stored in a database associated with the media server and adapted to retrieve information from a particular one of the information sources that has the desired information;
1(c) accessing, by a web-browsing server, a portion of the information source to retrieve information of interest requested by the particular user, by using a processor of the web-browsing server, which processor	6(c) a web-browsing server coupled to the media server and adapted to access a portion of the information source to retrieve information of interest requested by the particular user, by using a processor of the web-	11(c) providing access, by the speech command, via a web-browsing server, to a portion of the information source to retrieve the desired information for the particular user, by using a processor of the web-	19(c) a web-browsing server, adapted to provide access, by the speech command, to a portion of the information source to retrieve the desired information, by using a processor of the web-

	browsing server, which processor	browsing server, which processor	browsing server, which process
1(c)[(i)] performs an instruction that requests information from an identified webpage, and	6(c)[(i)] performs an instruction that requests information from an identified webpage, and	11(c)[(i)] performs an instruction that requests information from an identified webpage, and	19(c)[(i)] performs an instruction that requests information from an identified webpage, and
1(c)[(ii)] utilizes a content extractor within the web-browsing server to separate a portion of the information from other information, the information derived from only a portion of the webpage containing information of interest to the particular user,	6(c)[(ii)] utilizes a content extractor within the web-browsing server to separate a portion of the information from other information, the information derived from only a portion of a webpage containing information of interest to a particular user,	11(c)[(ii)] utilizes a content extractor within the web-browsing server to separate a portion of the information from other information, the information is derived from only a portion of the webpage containing information of interest to a particular user,	19(c)[(ii)] utilizes a content extractor within the web-browsing server to separate a portion of the information from other information, the information derived from only a portion of the webpage containing information of interest to the particular user,
1(c)[(iii)] wherein the content extractor uses a content-descriptor file containing a description of the portion of information and wherein the content-descriptor file indicates a location of the portion of the information within the information source;	6(c)[(iii)] wherein the content extractor uses a content-descriptor file containing a description of the portion of information and wherein the content-descriptor file indicates a location of the portion of the information within the information source, and	11(c)[(iii)] wherein the content extractor uses a content-descriptor file containing a description of the portion of information and wherein the content-descriptor file indicates a location of the portion of the information within the information source,	19(c)[(iii)] wherein the content extractor uses a content-descriptor file containing a description of the portion of information and wherein the content-descriptor file indicates a location of the portion of the information within the information source

1(d) selecting by the web-browsing server the information of interest from the information source and retrieving only the portion of the information of interest requested by the particular user according to the at least one information-source-retrieval instruction;	6(c)[(iv)] selecting, by the web-browsing server, the information of interest from the information source and retrieving only the portion of the information of interest requested by the particular user according to the at least one information-source-retrieval instruction; and	11(d) selecting, by the web-browsing server, the desired information from the appropriate information source and retrieving only the portion of the information of interest requested by the particular user according to the at least one information-source-retrieval instruction;	19(c)[(iv)] and selecting, by the web-browsing server, the desired information from the information source and retrieving only the portion of the information desired by the particular user according to the at least one information-source-retrieval instruction;
1(e) converting the information retrieved from the information source into an audio message by a speech-synthesis engine, the speech-synthesis engine coupled to the media server; and	6(d)[(i)] a speech-synthesis engine including a processor and coupled to the media server, the speech-synthesis engine adapted to convert the information retrieved from the information source into an audio message and	11(e) converting the information retrieved from the information source into an audio message, by a speech-synthesis engine, the speech-synthesis engine coupled to the media server;	19(d)[(i)] a speech-synthesis engine coupled to the media server, and adapted to convert the portion of the information from the information source into an audio message for the particular user of the plurality of users
1(f) transmitting the audio message to the electronic-communication device of the particular user requesting information of	6(d)[(ii)] transmit the audio message by the electronic-communication device of the particular user requesting	11(f) conveying the audio message through the electronic-communication device to the respective electronic-communication device of the particular	19(d)[(ii)] and conveying the audio message through the electronic-communication device to the particular user of the plurality of users; and

interest to the particular user.	information of interest to the particular user.	user requesting the desired information; and	
		11(g) providing a graphical display and adapted to display the desired information retrieved from the information source to the particular user on the respective electronic-communication device of the particular user.	19(e) a graphical display interface coupled to the media server and adapted to provide for display the desired information retrieved from the information source to certain others of the plurality of users.
2. The method of claim 1, further comprising: searching, by the media server, an associated website to locate requested information.			
3[A] The method of claim 1, wherein the respective electronic-communication device is at least one of a landline telephone, a wireless telephone,	8[A] The system of claim 6, wherein the respective electronic-communication device is at least one of a landline telephone, a wireless telephone, and	13[A]. The method of claim 11, wherein the respective electronic-communication device is at least one of a landline telephone, a wireless telephone, and an internet protocol telephone	21. The system of claim 19, wherein the respective electronic-communication device is at least one of a landline telephone, a wireless telephone, and an internet protocol telephone.

3[B] and an internet protocol telephone and the media server is operatively connected to at least one of a local-area network, a wide-area network, and the internet.	8[B] an internet protocol telephone and wherein the media server is operatively connected to the network, which is at least one of a local-area network, a wide-area network, and the internet.	13[B] and wherein the media server is operatively connected to the network, which is at least one of a local-area network, a wide-area network, and the internet.	22. The system of claim 19, wherein the media server is operatively connected to the network, which is at least one of a local-area network, a wide area network, and the internet.
4. The method of claim 1, wherein the media server functions as a user-interface system adapted to provide access to a voice-browsing system.	9. The system of claim 6, wherein the media server functions as a user-interface system adapted to provide access to a voice-browsing system.	17. The method of claim 11, wherein the media server functions as a user-interface system adapted to provide access to a voice-browsing system.	
5. The method of claim 1, further comprising: clipping engine adapted to initially generate the content-descriptor file that indicates the location of the portion of the information within the information source.	10[A]. The method of claim 6, further comprising: clipping engine adapted to generate the content-descriptor file, ... wherein the information is only the portion of the webpage containing information of interest to the particular user.	18[A]. The method of claim 11, further comprising: clipping engine coupled to the content-descriptor file,... wherein the information is only the portion of the webpage containing information of interest to the particular user.	
	10[B] by which, an instruction is used by the web-browsing server to	18[B] by which, the instruction requests information from the	

	request information from the identified website and the information is displayed on the respective electronic-communication device,	identified website and the information is displayed on the respective electronic-communication device,	
	7. The system claim 6, further comprising: an interface to an associated website by the network to locate requested information.	12. The method of claim 11, further comprising: an interface to a plurality of associated websites accessed by the network to locate the desired information.	20. The system claim 19, further comprising: an interface to a plurality of associated websites of the information source accessed by the network to locate the desired information.
		14. The method of claim 11, wherein the web-browsing server further comprises the content-descriptor file, which is stored within the web-browsing server, wherein the content-descriptor file relates to obtaining the desired information from a website.	23. The system of claim 19, wherein the content-descriptor file relates to obtaining the desired information from a website.
		15. The method of claim 11, wherein the speech command includes a	24. The system of claim 19, wherein the speech command includes a

		phrase provided by the certain users, the phrase associated with an identified website and information.	phrase provided by the particular user, the phrase associated with an identified website and information available at the website.
		16. The method of claim 11, wherein a command for executing a content-extraction agent are stored in a database associated with the media server and used for voice browsing.	25. The system of claim 16, wherein a command for executing the content-extraction agent is stored in a database associated with the media server and used for voice browsing.
			26. The system of claim 19, further comprising: a database wherein a personal-recognition grammar is stored in the database and relates to web information.