

Claim Elements of Challenged Claims of U.S. Patent No. 11,616,826 (the '826 Patent)

Limitation	'826 Patent (EX1001, 19:15-21:5)	Corresponding subject matter from '622 Patent (EX1025, 19:15-22:16)
<i>1[p]</i>	A method for use with a web server that stores a first content identified by a <i>first content identifier</i> ¹ , and for use with a first client device that is addressed over the Internet using first Internet Protocol (IP) address, for use with a <i>list</i> of IP addresses stored in the first server, the method by the first server comprising:	[1p] – A method for fetching, by a first client device, a first content that comprises a web-page, an audio, or a video content, and is identified by a <i>first Uniform Resource Locator (URL)</i> and stored in a first web server, for fetching, by the first client device, a second content that comprises a web-page, an audio, or a video content, and is identified by a second URL and stored in a second web server, for use with a first server that stores a <i>group</i> of IP addresses, the method by the first server comprising [22] – The method according to claim 1, wherein the first client device is addressed over the Internet using a first Internet Protocol (IP) address, and the method further comprising storing, in the first server, the first IP address.
<i>1[a]</i>	storing, operating, or using, a server operating system;	[30] – The method according to claim 1, further comprising storing, operating, or using, by the first server, a server operating system.

¹ Emphasis in '826 Patent claim denotes slightly different claim language; emphasis in '622 Patent claim denotes substantively identical feature.

1[b]	receiving, from the first client device, the <i>first content identifier</i> ;	[1b] – receiving, from the first client device, the <i>first URL</i> ;
1[c]	selecting, an IP address from the <i>list</i> according to a criterion;	[1b] – selecting, in response to the receiving of the first URL from the first client device, an IP address from the <i>group</i> ; [14] – The method according to claim 1, for use with a criterion stored in the first server, wherein the selecting is according to, or based on, the criterion.
1[d]	sending, in response to the receiving of the <i>first content identifier</i> , using the selected IP address, the first content identifier;	[1b] – selecting, in response to the receiving of the <i>first URL</i> from the first client device, an IP address from the group; [1c] – sending, in response to the selecting, <i>the first URL</i> to the first web server using the selected IP address;
1[e]	receiving, in response to the sending of the <i>first content identifier</i> , the first content from the web server; and	[1d] – receiving, in response to the sending of the <i>first URL</i> , the first content from the first web server;
1[f]	sending the received first content, or a part thereof, to the first client device.	[20] – The method according to claim 1, further comprising sending the received first content to the first client device.

2	The method according to claim 1, further for use with a <i>second client device</i> that is <i>addressable in</i> the Internet using the selected IP address.	[2] – The method according to claim 1, wherein each of the IP addresses in the group is associated with a <i>respective client device</i> that is <i>identified over</i> the Internet using a respective IP address. [26p] – The method according to claim 1, for use with a second client device, the method further comprising, by the first server:
3	The method according to claim 2, wherein the sending of the first content identifier comprises sending to the second client device.	
4	The method according to claim 3, further comprising:	
	receiving, by the second client device from the first server, the first content identifier;	
	sending, by the second client device from the web server, the first content; and	
	sending, by the second client device to the first server, the received first content or a part thereof.	

5	The method according to claim 2, further comprising, by the first server:	[2] – The method according to claim 1, wherein each of the IP addresses in the group is associated with a respective client device that is identified over the Internet using a respective IP address. [26p] – The method according to claim 1, for use with a second client device, the method further comprising, by the first server:
	communicating with the <i>second client device</i> ; and	[6] – The method according to claim 2, further comprising communicating, by the first server, with <i>each of the client devices</i> that are identified over the Internet using by the stored IP addresses.
	storing an IP address of the <i>second client device</i> in the list in response to the communicating.	[7] – The method according to claim 6, further comprising storing, by the first server, the IP addresses of <i>each of the client devices</i> in response to the communicating.
6	The method according to claim 1, for use with a <i>second client device</i> , the method further comprising:	[2] – The method according to claim 1, wherein each of the IP addresses in the group is associated with a <i>respective client device</i> that is identified over the Internet using a respective IP address. [26p] – The method according to claim 1, <i>for use with a second client device</i>, the method further comprising, by the first server:

	sending, by the first server, a ‘keep alive’ message to the <i>second client device</i>; and	[11a] – sending, a ‘keep alive’ message to <i>each of the client devices</i> that are identified over the Internet using by the stored IP addresses; and
	waiting, by the first server, for a response to the ‘keep alive’ message from the <i>second client device</i>.	[11b] – waiting for a response to the ‘keep alive’ message from <i>each of the client devices</i>.
7	The method according to claim 6, further comprising: receiving, by the first server, <i>the response to the ‘keep alive’ message</i> from the second client device; and responsive to the receiving of the response, adding the IP address of the second client device to the <i>list</i>.	[26p] – The method according to claim 1, for use with a second client device, the method further comprising, by the first server: [26a] – receiving <i>a message</i> from the second client device; and [26b] – responsive to the receiving of the message from the second client device, adding the IP address of the second device to the <i>group</i> of IP addresses.

8	The method according to claim 6, further comprising responsive to not receiving, by the first server, a response to the ‘keep alive’ message from the <i>second client device</i> , removing the IP address of the <i>second</i> client device from the <i>list</i> .	[12] – The method according to claim 11, further comprising responsive to not receiving, by the first server, a response to the ‘keep alive’ message from <i>a client device</i> , removing the IP address of the non-responsive <i>third</i> client device from <i>group</i> of IP addresses.
9	The method according to claim 6, wherein the sending of the ‘keep alive’ message comprises periodically sending by the first server the ‘keep alive’ message to the <i>second client device</i> .	[13] – The method according to claim 11, wherein the sending of the ‘keep alive’ message comprises periodically sending by the first server the ‘keep alive’ message to at least part of <i>the client devices</i> .
10	The method according to claim 1, wherein the criterion is stored in the first server.	[14] – The method according to claim 1, for use with a criterion stored in the first server, wherein the selecting is according to, or based on, the criterion.
12	The method according to claim 10, wherein the criterion is based on, or comprises, a geographical location of a client device addressed by the selected IP address, or a response time when communicating with the client device addressed by the selected IP address.	[16] – The method according to claim 14, wherein the criterion is based on, or comprises, a geographical location of the client device addressed by the selected IP address. [17] – The method according to claim 14, wherein the criterion is based on, or comprises, a response time when communicating.

15	The method according to claim 1, wherein the first server is a Transmission Control Protocol/Internet Protocol (TCP/IP) server that communicates over the Internet with the <i>first client device</i> based on, according to, or using, TCP/IP protocol or connection.	[23] – The method according to claim 1, wherein the first server is a Transmission Control Protocol/Internet Protocol (TCP/IP) server that communicates over the Internet with <i>client devices</i> based on, according to, or using, TCP/IP protocol or connection.
16	The method according to claim 1, wherein the first server communicates over the Internet based on, or according to, one out of UDP, DNS, TCP, FTP, POP*, SMTP, or SQL standards.	[24] – The method according to claim 1, wherein the first server communicates over the Internet based on, or according to, one out of UDP, DNS, TCP, FTP, POP#, SMTP, or SQL standards.
17	The method according to claim 1, wherein the first content comprises web-page, audio, or video content, and wherein the <i>first content identifier</i> comprises a Uniform Resource Locator (URL).	[1p] – A method for fetching, by a first client device, a first content that comprises a web-page, an audio, or a video content, and is <i>identified by a first Uniform Resource Locator (URL)</i> and stored in a first web server, for fetching, by the first client device, a second content that comprises a web-page, an audio, or a video content, and is identified by a second URL and stored in a second web server, for use with a first server that stores a group of IP addresses, the method by the first server comprising

18	The method according to claim 1, for use with a plurality of client devices that includes a second client device, each identified over the Internet using a respective IP address from the list, wherein the method further comprising:	[6] – The method according to claim 2, further comprising communicating, by the first server, with each of the client devices that are identified over the Internet using by the stored IP addresses.
	selecting, by the first server, multiple client devices from the plurality of client devices by selecting the IP addresses of the multiple client devices from the list; and	
	sending, by the first server, the selected IP addresses in response to the selecting.	
19	The method according to claim 1, further comprising sending of the selected IP addresses to the <i>first client device</i> .	[28] – The method according to claim 1, further comprising sending, by the first server, the selected IP address in response to the selecting.
21	The method according to claim 1, wherein the first client device is identified by a first Internet Protocol (IP) address, Media Access Control (MAC) address, or a hostname.	[29] – The method according to claim 1, wherein the first client device is identified by a first Internet Protocol (IP) address, Media Access Control (MAC) address, or a hostname.

22	The method according to claim 1, wherein the web server is a Hypertext Transfer Protocol (HTTP) server responding to HTTP requests.	[32] – The method according to claim 1, wherein the first web server comprises a web server that is a Hypertext Transfer Protocol (HTTP) server responding to HTTP requests and addressed in the Internet using a web server Internet Protocol (IP) address.
23	The method according to claim 1, wherein the steps are sequentially executed.	
24	The method according to claim 1, for use with a software application that includes computer instructions that, when executed by a computer processor, cause the processor to perform the steps of the claim 1.	[31] – The method according to claim 1, for use with a software application that includes computer instructions that, when executed by a computer processor, cause the processor to perform the steps of the claim 1.
25	A <i>non-transitory computer readable medium</i> containing computer instructions that, when executed by a computer processor, cause the processor to perform the method according to claim 1.	[31] – The method according to claim 1, for use with a software application that includes computer instructions that, when executed by a computer processor, cause the processor to perform the steps of the claim 1.

Claims of U.S. Patent No. 11,190,622 found unpatentable in light of Kocherlakota and RFC1122 in IPR2022-00687 (EX1028, 59/61; EX1025, 19:15-22:16)

1	[1p]	A method for fetching, by a first client device, a first content that comprises a web-page, an audio, or a video content, and is identified by a first Uniform Resource Locator (URL) and stored in a first web server, for fetching, by the first client device, a second content that comprises a web-page, an audio, or a video content, and is identified by a second URL and stored in a second web server, for use with a first server that stores a group of IP addresses, the method by the first server comprising:
	[1a]	receiving, from the first client device, the first URL;
	[1b]	selecting, in response to the receiving of the first URL from the first client device, an IP address from the group;
	[1c]	sending, in response to the selecting, the first URL to the first web server using the selected IP address;
	[1d]	receiving, in response to the sending of the first URL, the first content from the first web server;
	[1e]	receiving, from the first client device, the second URL;
	[1f]	selecting, in response to the receiving of the second URL from the first client device, an additional IP address from the group;
	[1g]	sending, in response to the selecting, the second URL to the second web server using the selected additional IP address; and

	[1h]	receiving, in response to the sending of the second URL, the second content from the second web server.
2		The method according to claim 1, wherein each of the IP addresses in the group is associated with a respective client device that is identified over the Internet using a respective IP address.
3		The method according to claim 2, wherein the sending of the first URL to the first web server comprises sending, by the first server, the first URL to the client device addressed by the selected IP address.
4		The method according to claim 3, wherein the sending of the first URL to the first web server further comprises sending, by the client device addressed by the selected IP address, the first URL to the first web server, and receiving, from the first web server, the first content.
5		The method according to claim 3, wherein the receiving of the first content from the first web server comprises receiving the first content from the client device addressed by the selected IP address.
6		The method according to claim 2, further comprising communicating, by the first server, with each of the client devices that are identified over the Internet using by the stored IP addresses.
7		The method according to claim 6, further comprising storing, by the first server, the IP addresses of each of the client devices in response to the communicating.
8		The method according to claim 6, further comprising receiving a 'keep alive' message, by the first server, from each of the client devices that are identified over the Internet using by the stored IP addresses.

9		The method according to claim 2, wherein each of the IP addresses in the group is associated with a respective client device that is identified over the Internet using a respective IP address and is currently online.
10		The method according to claim 2, further comprising establishing, by the first server, a Transmission Control Protocol (TCP) connection with each of the client devices that are identified over the Internet using the IP addresses in the group.
11	[11p]]	The method according to claim 1, further comprising by the first server:
	[11a]	sending, a 'keep alive' message to each of the client devices that are identified over the Internet using by the stored IP addresses; and
	[11b]]	waiting for a response to the 'keep alive' message from each of the client devices.
12		The method according to claim 11, further comprising responsive to not receiving, by the first server, a response to the 'keep alive' message from a client device, removing the IP address of the non-responsive third client device from group of IP addresses.
13		The method according to claim 11, wherein the sending of the 'keep alive' message comprises periodically sending by the first server the 'keep alive' message to at least part of the client devices.

14		The method according to claim 1, for use with a criterion stored in the first server, wherein the selecting is according to, or based on, the criterion.
15		The method according to claim 14, wherein the criterion is based on, or comprises, a numerical closeness to the first web server IP address.
16		The method according to claim 14, wherein the criterion is based on, or comprises, a geographical location of the client device addressed by the selected IP address.
17		The method according to claim 14, wherein the criterion is based on, or comprises, a response time when communicating.
18		The method according to claim 1, for use with a software application stored in the first server and associated with a first version number, and wherein the method further comprising sending, by the first server to to client device, a message that comprises the first version number of the software application.
19		The method according to claim 18, further comprising sending, by the first server to the client device, the first software application.
20		The method according to claim 1, further comprising sending the received first content to the first client device.
21		The method according to claim 20, further comprising sending the received second content to the first client device.

22		The method according to claim 1, wherein the first client device is addressed over the Internet using a first Internet Protocol (IP) address, and the method further comprising storing, in the first server, the first IP address.
23		The method according to claim 1, wherein the first server is a Transmission Control Protocol/Internet Protocol (TCP/IP) server that communicates over the Internet with client devices based on, according to, or using, TCP/IP protocol or connection.
24		The method according to claim 1, wherein the first server communicates over the Internet based on, or according to, one out of UDP, DNS, TCP, FTP, POP#, SMTP, or SQL standards.
25		The method according to claim 1, further comprising responsive to the receiving of the first URL from the first client device, adding the IP address of the first client device to group of IP addresses.
26	[26p]	The method according to claim 1, for use with a second client device, the method further comprising, by the first server:
	[26a]	receiving a message from the second client device; and
	[26b]	responsive to the receiving of the message from the second client device, adding the IP address of the second device to the group of IP addresses.
27		The method according to claim 1, wherein the sending of the first URL to the first web server comprises using the selected IP address as a source address.

28		The method according to claim 1, further comprising sending, by the first server, the selected IP address in response to the selecting.
29		The method according to claim 1, wherein the first client device is identified by a first Internet Protocol (IP) address, Media Access Control (MAC) address, or a hostname.
30		The method according to claim 1, further comprising storing, operating, or using, by the first server, a server operating system.
31		The method according to claim 1, for use with a software application that includes computer instructions that, when executed by a computer processor, cause the processor to perform the steps of the claim 1.
32		The method according to claim 1, wherein the first web server comprises a web server that is a Hypertext Transfer Protocol (HTTP) server responding to HTTP requests and addressed in the Internet using a web server Internet Protocol (IP) address.