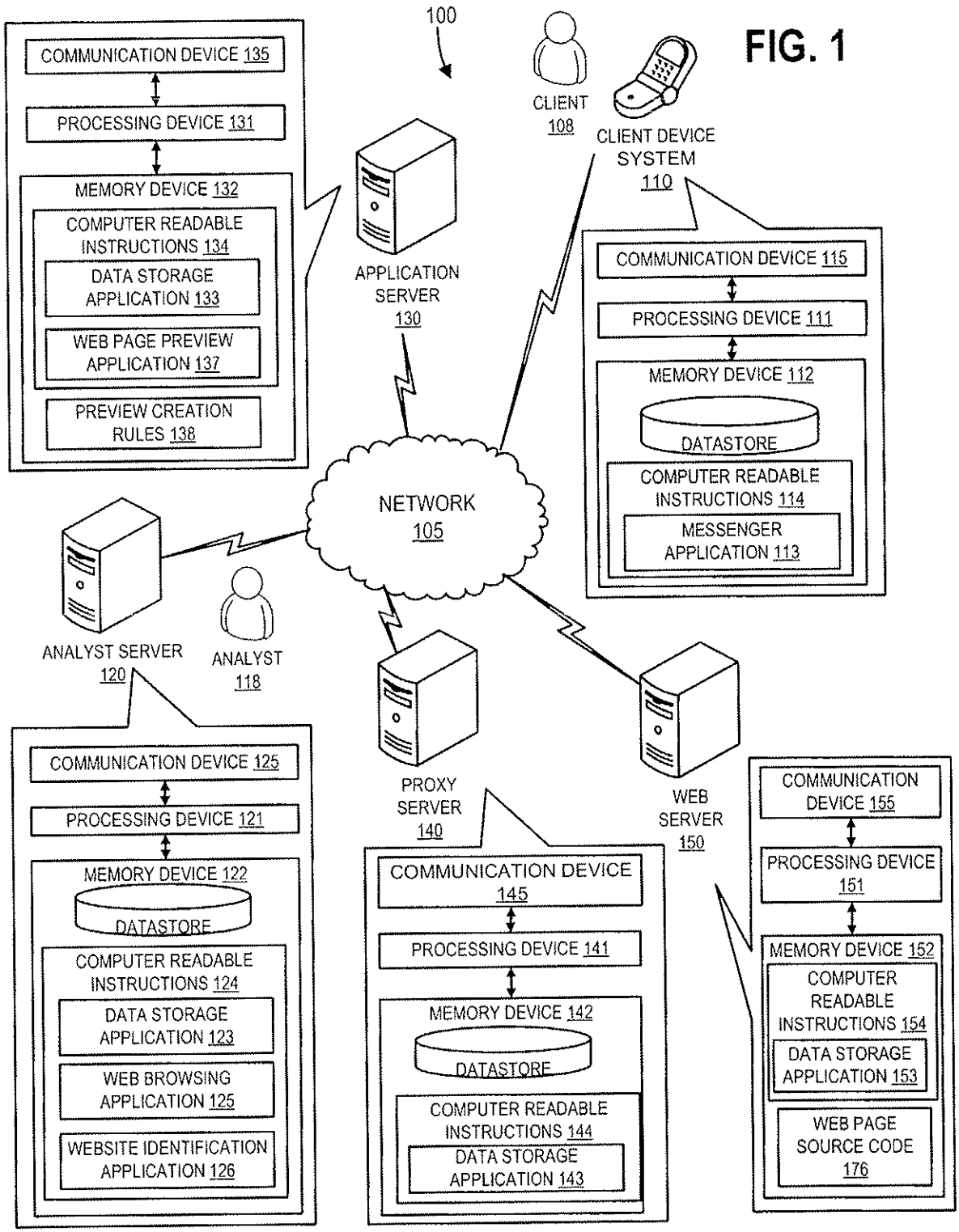

100
COMMUNICATION DEVICE 135
PROCESSING DEVICE 131
MEMORY DEVICE 132
COMPUTER READABLE INSTRUCTIONS 134
DATA STORAGE APPLICATION 133
WEB PAGE PREVIEW APPLICATION 137
PREVIEW CREATION RULES 138
APPLICATION SERVER 130
CLIENT 108
CLIENT DEVICE SYSTEM 110
COMMUNICATION DEVICE 115
PROCESSING DEVICE 111
MEMORY DEVICE 112
DATASTORE
COMPUTER READABLE INSTRUCTIONS 114
MESSENGER APPLICATION 113
NETWORK 105
ANALYST SERVER 120
ANALYST 118
PROXY SERVER 140
WEB SERVER 150
COMMUNICATION DEVICE 125
PROCESSING DEVICE 121
MEMORY DEVICE 122
DATASTORE
COMPUTER READABLE INSTRUCTIONS 124
DATA STORAGE APPLICATION 123
WEB BROWSING APPLICATION 125
WEBSITE IDENTIFICATION APPLICATION 126
COMMUNICATION DEVICE 145
PROCESSING DEVICE 141
MEMORY DEVICE 142
DATASTORE
COMPUTER READABLE INSTRUCTIONS 144
DATA STORAGE APPLICATION 143
COMMUNICATION DEVICE 155
PROCESSING DEVICE 151
MEMORY DEVICE 152
COMPUTER READABLE INSTRUCTIONS 154
DATA STORAGE APPLICATION 153
WEB PAGE SOURCE CODE 176

FIG. 1

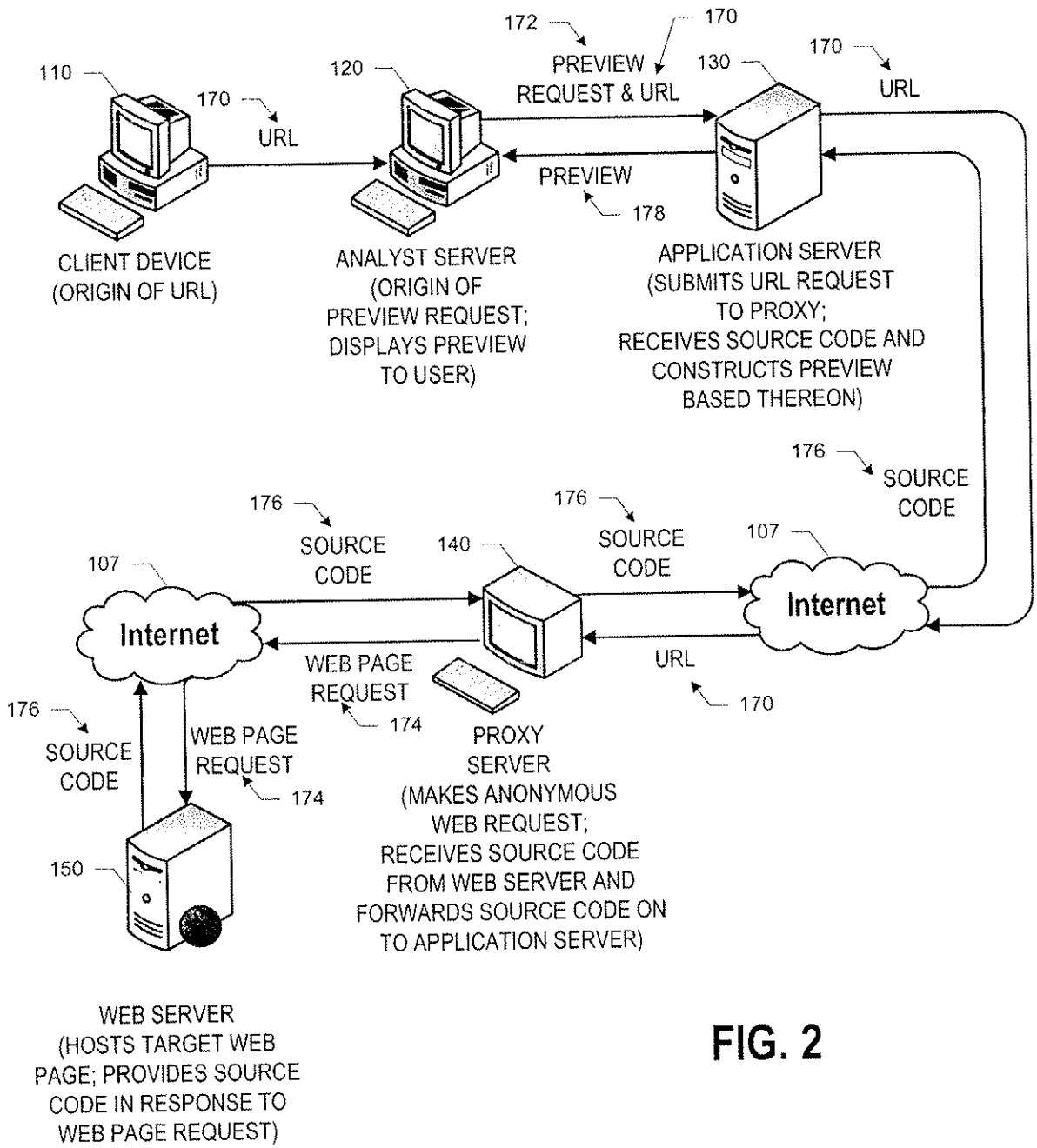

110
170
URL
120
172
170
PREVIEW
REQUEST & URL
130
170
URL
PREVIEW
178
CLIENT DEVICE
(ORIGIN OF URL)
ANALYST SERVER
(ORIGIN OF
PREVIEW REQUEST;
DISPLAYS PREVIEW
TO USER)
APPLICATION SERVER
(SUBMITS URL REQUEST
TO PROXY;
RECEIVES SOURCE CODE AND
CONSTRUCTS PREVIEW
BASED THEREON)
176
SOURCE
CODE
176
SOURCE
CODE
140
176
SOURCE
CODE
107
107
Internet
Internet
WEB PAGE
REQUEST
174
URL
170
176
SOURCE
CODE
WEB PAGE
REQUEST
174
PROXY
SERVER
(MAKES ANONYMOUS
WEB REQUEST;
RECEIVES SOURCE CODE
FROM WEB SERVER AND
FORWARDS SOURCE CODE ON
TO APPLICATION SERVER)
150
WEB SERVER
(HOSTS TARGET WEB
PAGE; PROVIDES SOURCE
CODE IN RESPONSE TO
WEB PAGE REQUEST)

FIG. 2

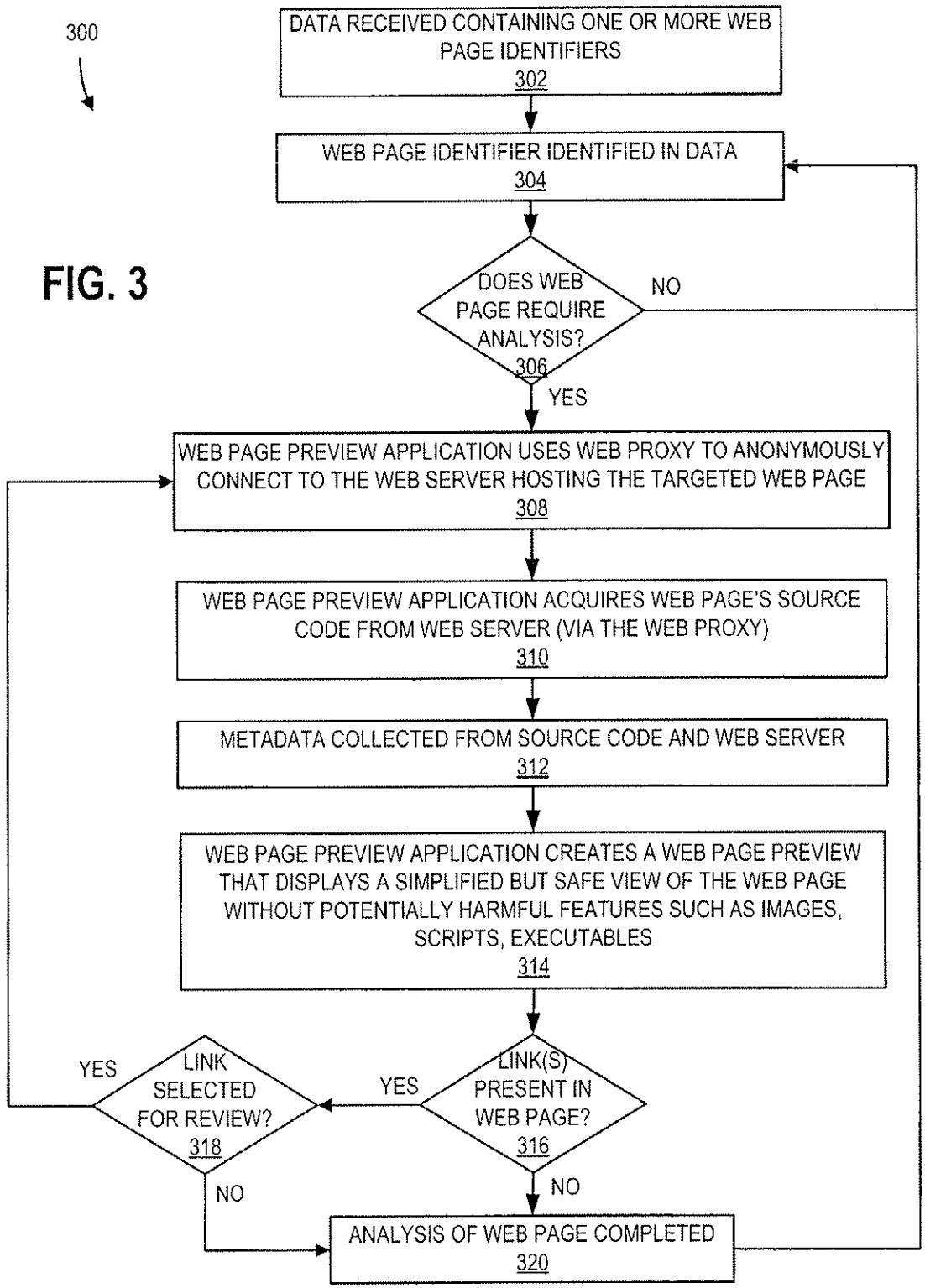

300
DATA RECEIVED CONTAINING ONE OR MORE WEB PAGE IDENTIFIERS
302
WEB PAGE IDENTIFIER IDENTIFIED IN DATA
304
DOES WEB PAGE REQUIRE ANALYSIS?
306
NO
YES
WEB PAGE PREVIEW APPLICATION USES WEB PROXY TO ANONYMOUSLY CONNECT TO THE WEB SERVER HOSTING THE TARGETED WEB PAGE
308
WEB PAGE PREVIEW APPLICATION ACQUIRES WEB PAGE'S SOURCE CODE FROM WEB SERVER (VIA THE WEB PROXY)
310
METADATA COLLECTED FROM SOURCE CODE AND WEB SERVER
312
WEB PAGE PREVIEW APPLICATION CREATES A WEB PAGE PREVIEW THAT DISPLAYS A SIMPLIFIED BUT SAFE VIEW OF THE WEB PAGE WITHOUT POTENTIALLY HARMFUL FEATURES SUCH AS IMAGES, SCRIPTS, EXECUTABLES
314
LINK(S) PRESENT IN WEB PAGE?
316
YES
LINK SELECTED FOR REVIEW?
318
YES
NO
NO
ANALYSIS OF WEB PAGE COMPLETED
320

FIG. 3

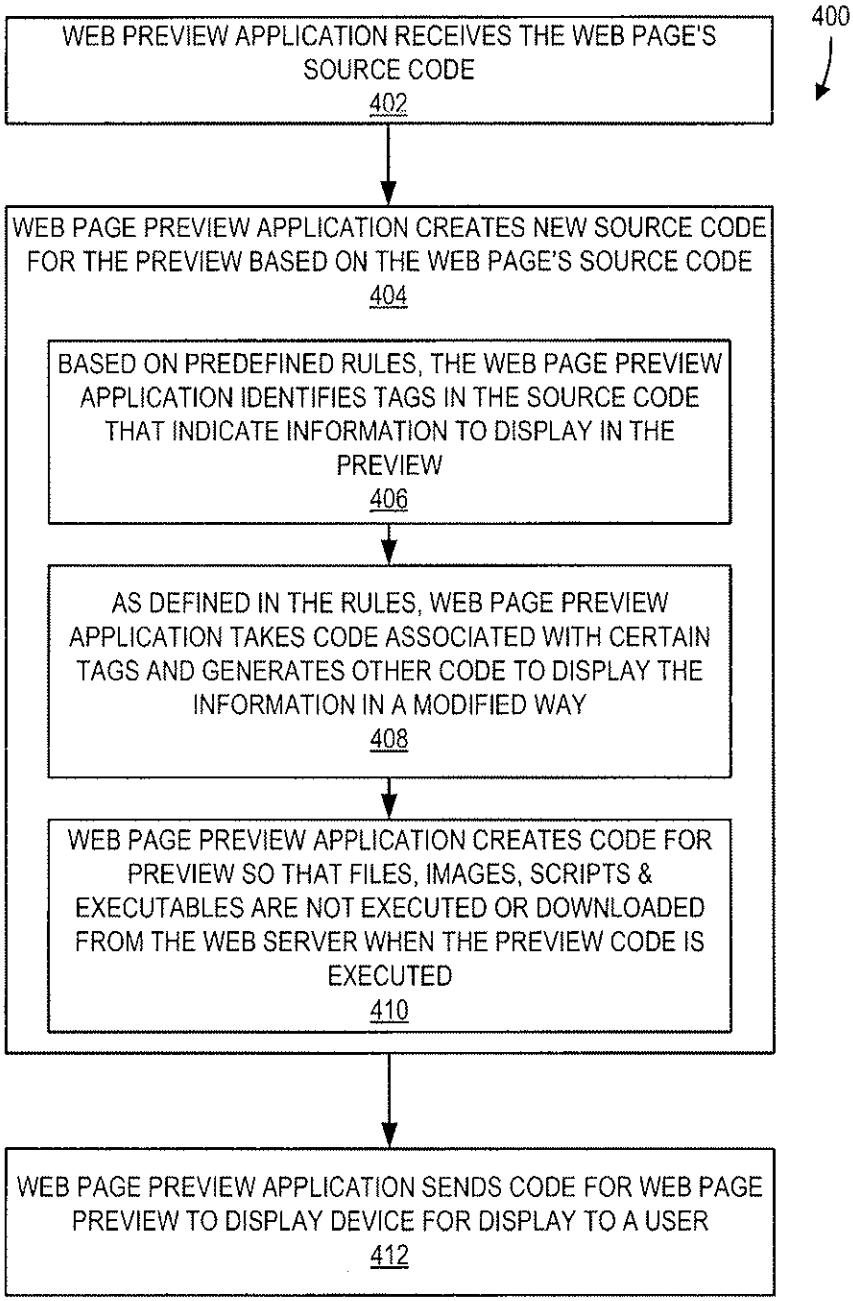
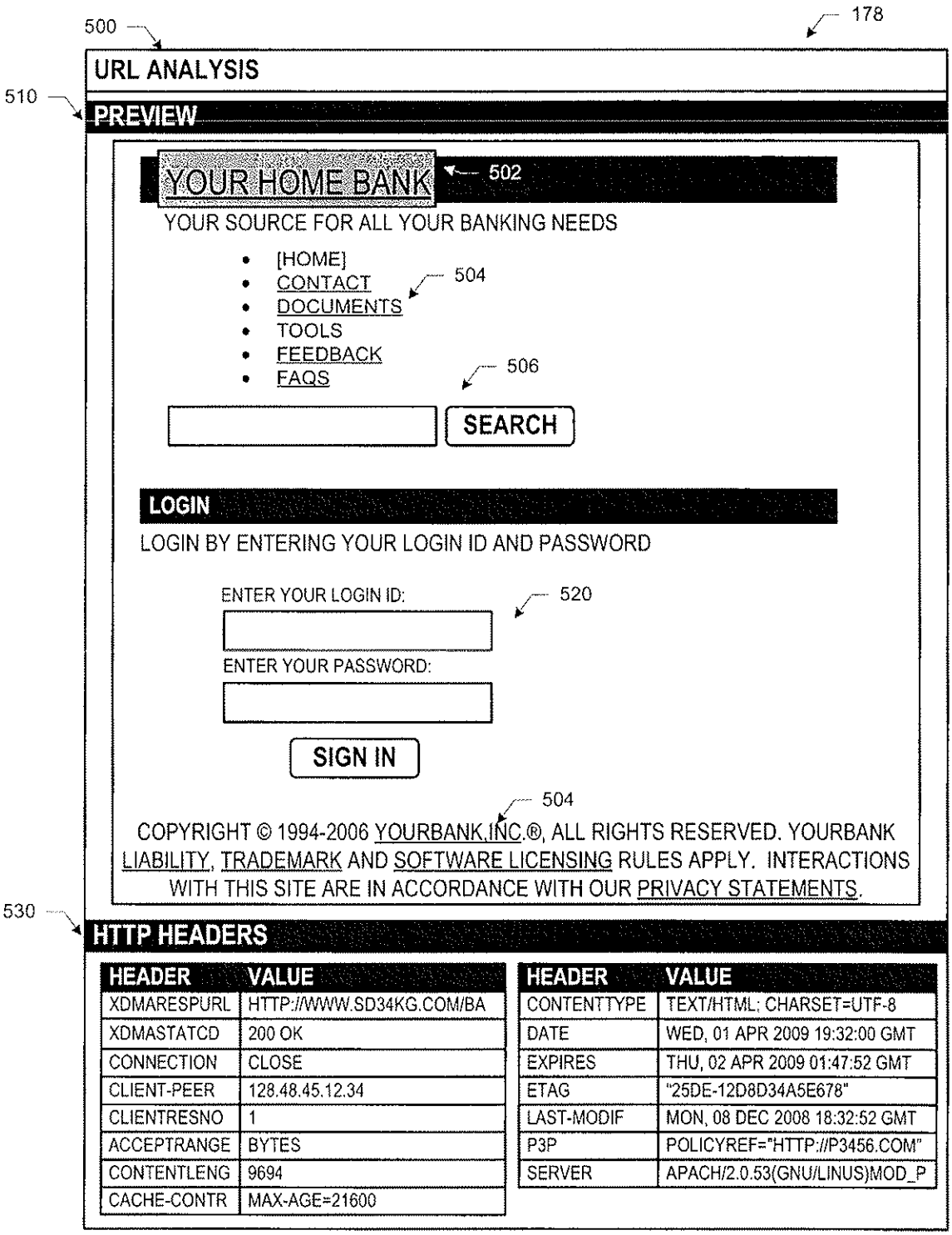

400
WEB PREVIEW APPLICATION RECEIVES THE WEB PAGE'S SOURCE CODE
402
WEB PAGE PREVIEW APPLICATION CREATES NEW SOURCE CODE FOR THE PREVIEW BASED ON THE WEB PAGE'S SOURCE CODE
404
BASED ON PREDEFINED RULES, THE WEB PAGE PREVIEW APPLICATION IDENTIFIES TAGS IN THE SOURCE CODE THAT INDICATE INFORMATION TO DISPLAY IN THE PREVIEW
406
AS DEFINED IN THE RULES, WEB PAGE PREVIEW APPLICATION TAKES CODE ASSOCIATED WITH CERTAIN TAGS AND GENERATES OTHER CODE TO DISPLAY THE INFORMATION IN A MODIFIED WAY
408
WEB PAGE PREVIEW APPLICATION CREATES CODE FOR PREVIEW SO THAT FILES, IMAGES, SCRIPTS & EXECUTABLES ARE NOT EXECUTED OR DOWNLOADED FROM THE WEB SERVER WHEN THE PREVIEW CODE IS EXECUTED
410
WEB PAGE PREVIEW APPLICATION SENDS CODE FOR WEB PAGE PREVIEW TO DISPLAY DEVICE FOR DISPLAY TO A USER
412

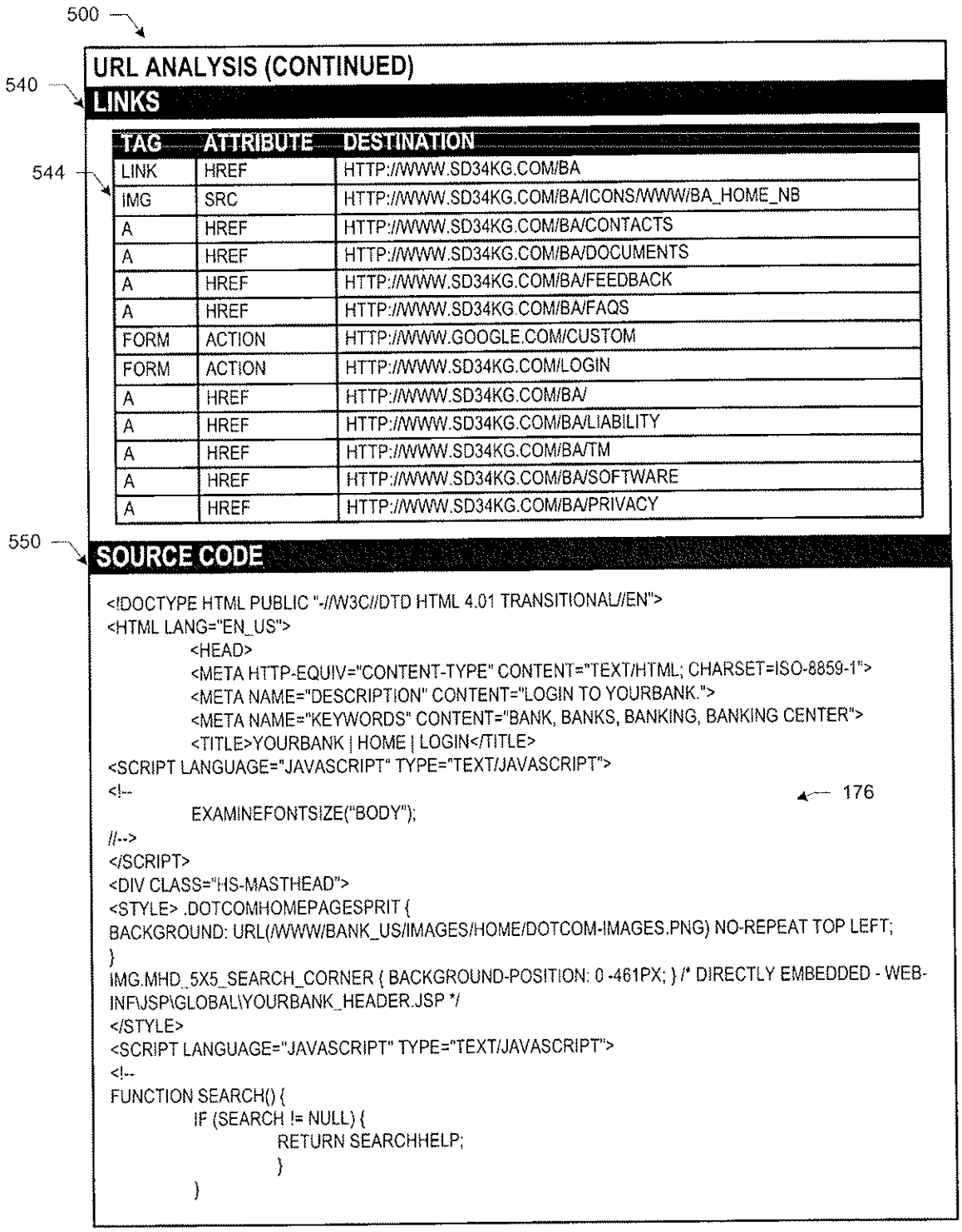
FIG. 4



HEADER	VALUE
XDMARESPURL	HTTP://WWW.SD34KG.COM/BA
XDMASTATCD	200 OK
CONNECTION	CLOSE
CLIENT-PEER	128.48.45.12.34
CLIENTRESNO	1
ACCEPTRANGE	BYTES
CONTENTLENG	9694
CACHE-CONTR	MAX-AGE=21600

HEADER	VALUE
CONTENTTYPE	TEXT/HTML; CHARSET=UTF-8
DATE	WED, 01 APR 2009 19:32:00 GMT
EXPIRES	THU, 02 APR 2009 01:47:52 GMT
ETAG	"25DE-12D8D34A5E678"
LAST-MODIF	MON, 08 DEC 2008 18:32:52 GMT
P3P	POLICYREF="HTTP://P3456.COM"
SERVER	APACH/2.0.53(GNU/LINUS)MOD_P

FIG. 5A



TAG	ATTRIBUTE	DESTINATION
LINK	HREF	HTTP://WWW.SD34KG.COM/BA
IMG	SRC	HTTP://WWW.SD34KG.COM/BA/ICONS/WWW/BA_HOME_NB
A	HREF	HTTP://WWW.SD34KG.COM/BA/CONTACTS
A	HREF	HTTP://WWW.SD34KG.COM/BA/DOCUMENTS
A	HREF	HTTP://WWW.SD34KG.COM/BA/FEEDBACK
A	HREF	HTTP://WWW.SD34KG.COM/BA/FAQS
FORM	ACTION	HTTP://WWW.GOOGLE.COM/CUSTOM
FORM	ACTION	HTTP://WWW.SD34KG.COM/LOGIN
A	HREF	HTTP://WWW.SD34KG.COM/BA/
A	HREF	HTTP://WWW.SD34KG.COM/BA/LIABILITY
A	HREF	HTTP://WWW.SD34KG.COM/BA/TM
A	HREF	HTTP://WWW.SD34KG.COM/BA/SOFTWARE
A	HREF	HTTP://WWW.SD34KG.COM/BA/PRIVACY

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 TRANSITIONAL//EN">
<HTML LANG="EN_US">
        <HEAD>
        <META HTTP-EQUIV="CONTENT-TYPE" CONTENT="TEXT/HTML; CHARSET=ISO-8859-1">
        <META NAME="DESCRIPTION" CONTENT="LOGIN TO YOURBANK.">
        <META NAME="KEYWORDS" CONTENT="BANK, BANKS, BANKING, BANKING CENTER">
        <TITLE>YOURBANK | HOME | LOGIN</TITLE>
<SCRIPT LANGUAGE="JAVASCRIPT" TYPE="TEXT/JAVASCRIPT">
<!--
        EXAMINEFONTSIZE("BODY");
//-->
</SCRIPT>
<DIV CLASS="HS-MASTHEAD">
<STYLE> .DOTCOMHOMEPAGESPRIT {
BACKGROUND: URL(/WWW/BANK_US/IMAGES/HOME/DOTCOM-IMAGES.PNG) NO-REPEAT TOP LEFT;
}
IMG.MHD_5X5_SEARCH_CORNER { BACKGROUND-POSITION: 0 -461PX; } /* DIRECTLY EMBEDDED - WEB-
INF\JSP\GLOBAL\YOURBANK_HEADER.JSP */
</STYLE>
<SCRIPT LANGUAGE="JAVASCRIPT" TYPE="TEXT/JAVASCRIPT">
<!--
FUNCTION SEARCH() {
        IF (SEARCH != NULL) {
                RETURN SEARCHHELP;
                }
        }
```

FIG. 5B