

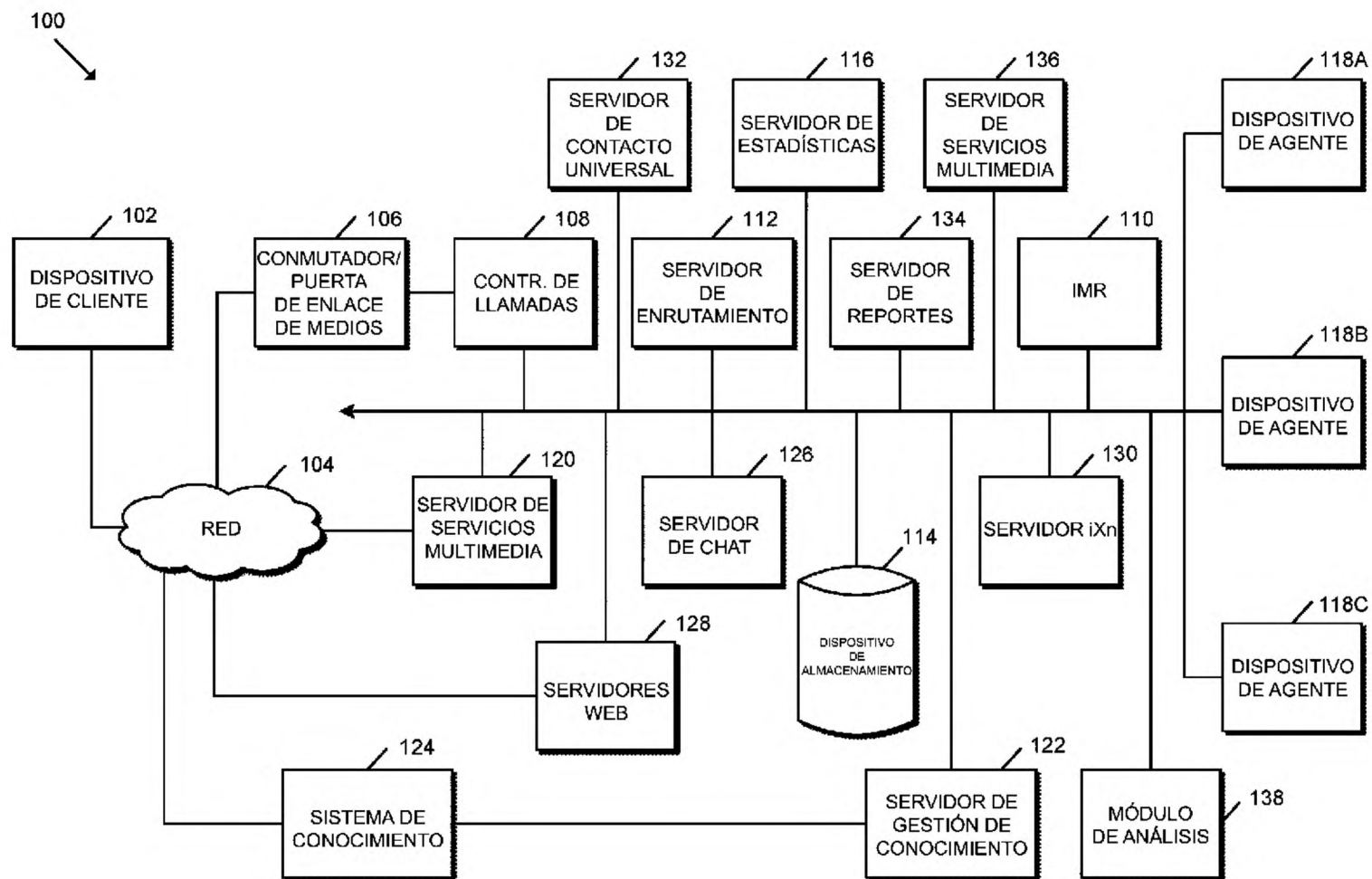


FIG. 1

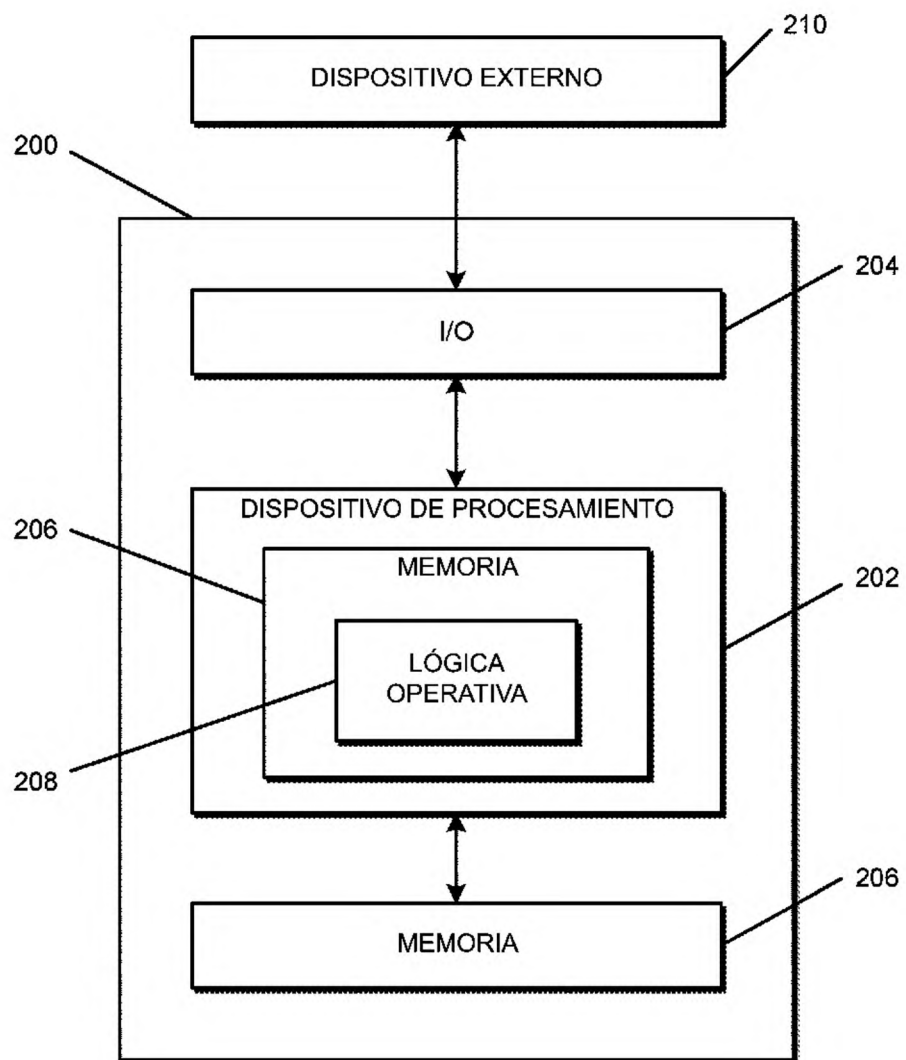


FIG. 2

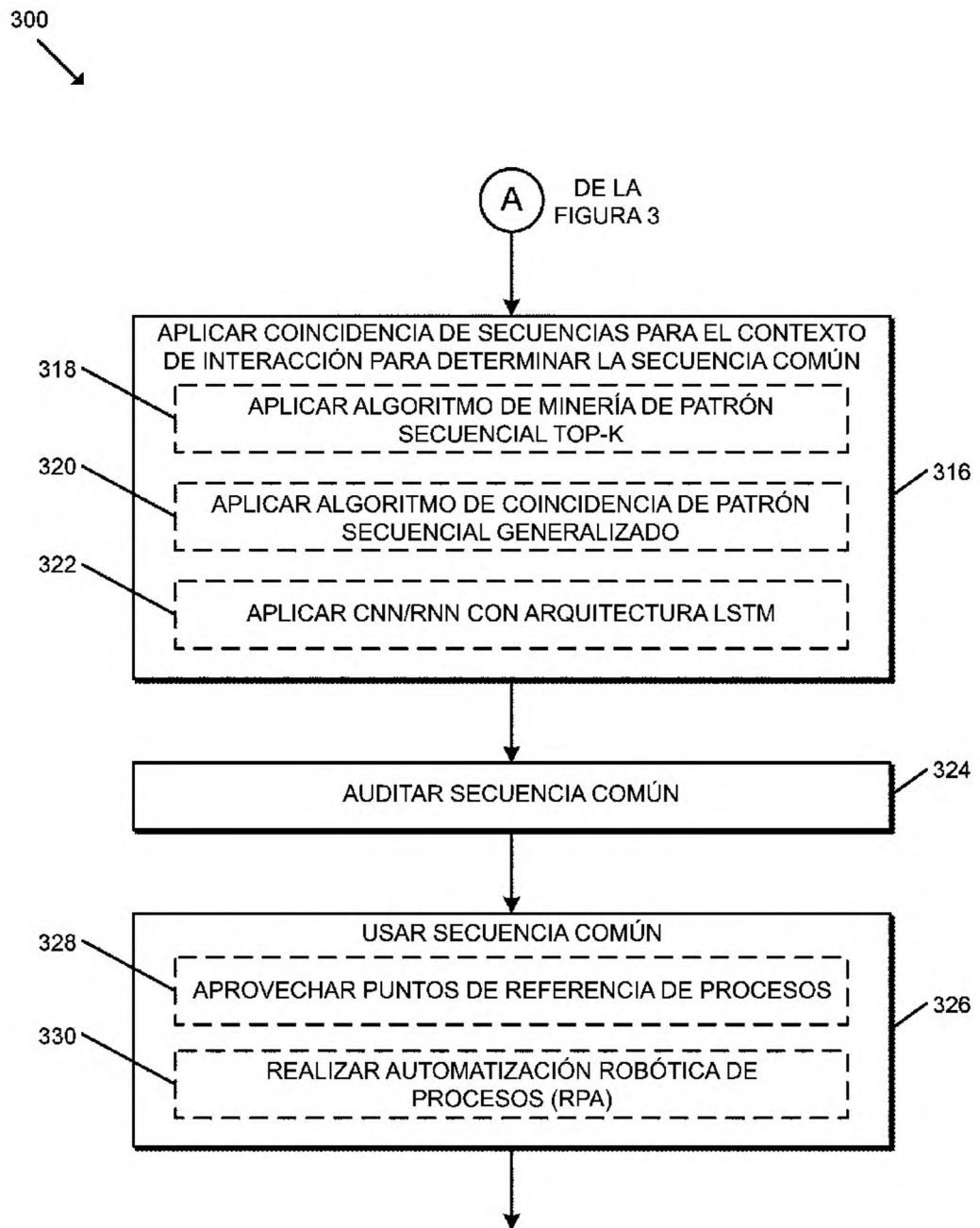


FIG. 4

500

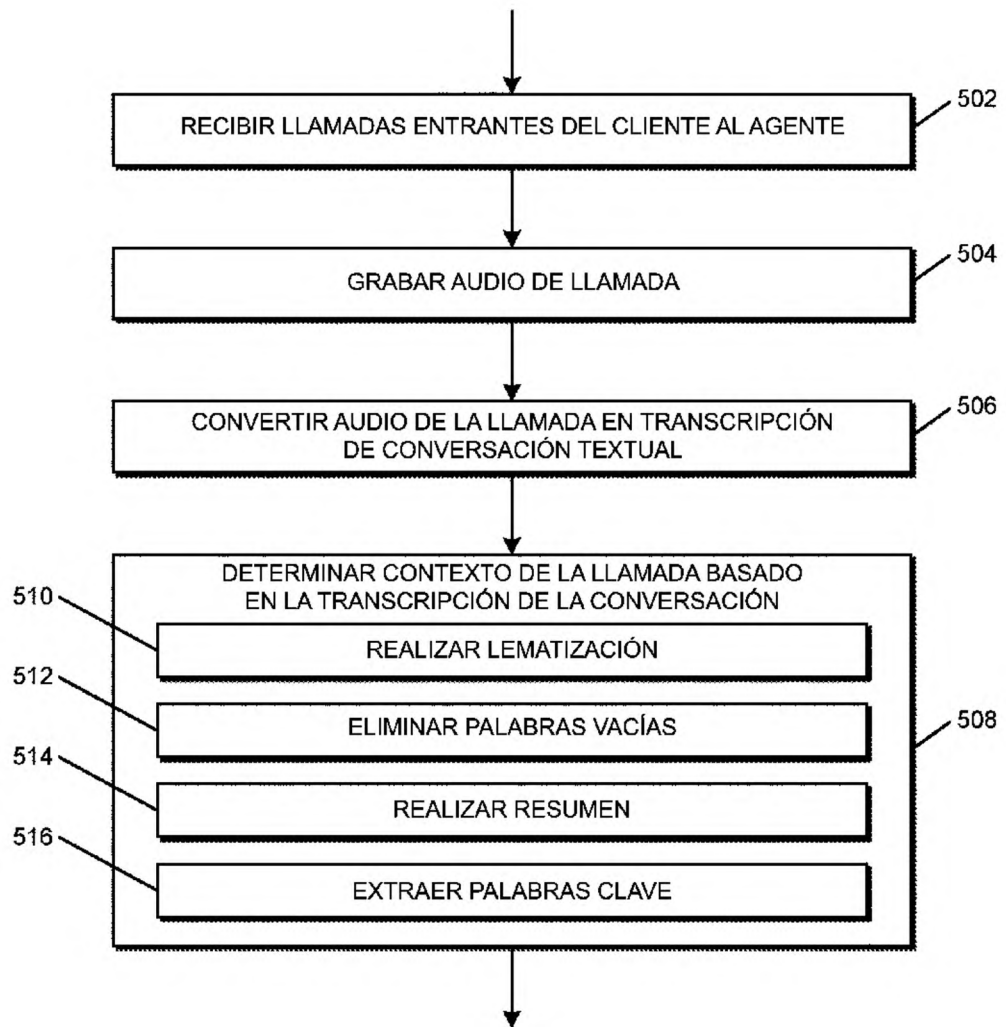


FIG. 5

```

1.  /*
2.  *
3.  * All possible events that can be captured from the DOM objects via Javascript
4.  *
5.  var AllDOMEvents = {
6.      UIEvent: "abort DOMActivate error load resize scroll select unload",
7.
8.      ProgressEvent: "abort error load loadend loadstart progress progress timeout",
9.
10.     Event: "abort afterprint beforeprint cached canplay canplaythrough change char
11.     gingchange chargingtimechange checking close dischargingtimechange DOMContentLoaded downloadi
12.     ng durationchange emptied ended ended error error error error fullscreenchange fullscreenerro
13.     r input invalid languagechange levelchange loadeddata loadedmetadata nouupdate obsolete offlin
14.     e online open open orientationchange pause pointerlockchange pointerlockerror play playing ra
15.     techchange readystatechange reset seeked seeking stalled submit success suspend timeupdate upda
16.     teready visibilitychange volumechange waiting",
17.     AnimationEvent: "animationend animationiteration animationstart",
18.     AudioProcessingEvent: "audioprocess",
19.     BeforeUnloadEvent: "beforeunload",
20.     TimeEvent: "beginEvent endEvent repeatEvent",
21.     OtherEvent: "blocked complete upgradeneeded versionchange",
22.
23.     FocusEvent: "blur DOMFocusIn Unimplemented DOMFocusOut Unimplemented focus f
24.     ocusin focusout",
25.
26.     MouseEvent: "click contextmenu dblclick mousedown mouseenter mouseleave mouseem
27.     ove mouseout mouseover mouseup show",
28.     SensorEvent: "compassneeds calibration Unimplemented userproximity",
29.     OfflineAudioCompletionEvent: "complete",
30.     CompositionEvent: "compositionend compositionstart compositionupdate",
31.     ClipboardEvent: "copy cut paste",
32.     DeviceLightEvent: "devicelight",
33.     DeviceMotionEvent: "devicemotion",
34.     DeviceOrientationEvent: "deviceorientation",
35.     DeviceProximityEvent: "deviceproximity",
36.     MutationNameEvent: "DOMAttributeNameChanged DOMElementNameChanged",
37.
38.     MutationEvent: "DOMAttrModified DOMCharacterDataModified DOMNodeInserted DOMNo
39.     deInsertedIntoDocument DOMNodeRemoved DOMNodeRemovedFromDocument DOMSubtreeModified",
40.     DragEvent: "drag dragend dragenter dragleave dragover dragstart drop",
41.     GamepadEvent: "gamepadconnected gamepaddisconnected",
42.     HashChangeEvent: "hashchange",
43.     KeyboardEvent: "keydown keypress keyup",
44.     MessageEvent: "message message message message",
45.     PageTransitionEvent: "pagehide pageshow",
46.     PopStateEvent: "popstate",
47.     StorageEvent: "storage",
48.     SVGEvent: "SVGAbort SVGError SVGLoad SVGResize SVGScroll SVGUnload",
49.     SVGZoomEvent: "SVGZoom",
50.
51.     TouchEvent: "touchcancel touchend touchenter touchleave touchmove touchstart",
52.
53.     TransitionEvent: "transitionend",
54.     WheelEvent: "wheel"
55. }
56. */

```

FIG. 6

id	Agente	Contexto	Elem. dom.	EVENTO	Uri de página	VALOR
244	Monique	Sol. camb. de plan de facturación	Parte inferior	MouseEvent-hacer clic	http://172.24.111.111:3500/ui/ad/v1/index.html	-
245	Monique	Sol. camb. de plan de facturación	Tramo	MouseEvent-hacer clic	http://172.24.111.111:3500/ui/ad/v1/index.html	PruebaCRM
246	Monique	Sol. camb. de plan de facturación	Entrada	MouseEvent-hacer clic	http://172.24.111.111:3500/testcrm/index.php?module=-	-
247	Monique	Sol. camb. de plan de facturación	Entrada	FocusEvent-difuminar	http://172.24.111.111:3500/testcrm/index.php?module=Pat	-
248	Monique	Sol. camb. de plan de facturación	Enviar	MouseEvent-hacer clic	http://172.24.111.111:3500/testcrm/index.php?action=-	-
249	Monique	Sol. camb. de plan de facturación	Enviar	FocusEvent-difuminar	http://172.24.111.111:3500/testcrm/index.php?action=Buscar	-
250	Monique	Sol. camb. de plan de facturación	a	MouseEvent-hacer clic	http://172.24.111.111:3500/testcrm/index.php?action=-	-
251	Monique	Sol. camb. de plan de facturación	Enviar	MouseEvent-hacer clic	http://172.24.111.111:3500/testcrm/index.php?module=-	-
252	Monique	Sol. camb. de plan de facturación	Enviar	FocusEvent-difuminar	http://172.24.111.111:3500/testcrm/index.php?module=Crear tarea	-
253	Monique	Sol. camb. de plan de facturación	Entrada	MouseEvent-hacer clic	http://172.24.111.111:3500/testcrm/index.php?module=-	-
254	Monique	Sol. camb. de plan de facturación	Entrada	ClipboardEvent-pegar	http://172.24.111.111:3500/testcrm/index.php?module=-	-
255	Monique	Sol. camb. de plan de facturación	Entrada	FocusEvent-difuminar	http://172.24.111.111:3500/testcrm/index.php?module=Cambio de plan de facturación	-
256	Monique	Sol. camb. de plan de facturación	Área de texto	FocusEvent-difuminar	http://172.24.111.111:3500/testcrm/index.php?module=-	-
257	Monique	Sol. camb. de plan de facturación	Área de texto	ClipboardEvent-pegar	http://172.24.111.111:3500/testcrm/index.php?module=-	-
258	Monique	Sol. camb. de plan de facturación	Enviar	MouseEvent-hacer clic	http://172.24.111.111:3500/testcrm/index.php?module=-	-
259	Monique	Sol. camb. de plan de facturación	Enviar	FocusEvent-difuminar	http://172.24.111.111:3500/testcrm/index.php?module=Guardar	-
260	Monique	Sol. camb. de plan de facturación	Tramo	MouseEvent-hacer clic	http://172.24.111.111:3500/ui/ad/v1/index.html	-
261	Monique	Sol. camb. de plan de facturación	Entrada	MouseEvent-hacer clic	http://172.24.111.111:3500/ui/ad/v1/index.html	-
262	Monique	Sol. camb. de plan de facturación	Entrada	ClipboardEvent-pegar	http://172.24.111.111:3500/ui/ad/v1/index.html	-
263	Monique	Sol. camb. de plan de facturación	Entrada	FocusEvent-difuminar	http://172.24.111.111:3500/ui/ad/v1/index.html	name@
264	Monique	Sol. camb. de plan de facturación	Entrada	FocusEvent-difuminar	http://172.24.111.111:3500/ui/ad/v1/index.html	name@
265	Monique	Sol. camb. de plan de facturación	Tramo	MouseEvent-hacer clic	http://172.24.111.111:3500/ui/ad/v1/index.html	-
266	Monique	Sol. camb. de plan de facturación	a	MouseEvent-hacer clic	http://172.24.111.111:3500/ui/ad/v1/index.html	-
267	Monique	Sol. camb. de plan de facturación	Entrada	FocusEvent-difuminar	http://172.24.111.111:3500/ui/ad/v1/index.html	Cambio de plan de facturación
268	Monique	Sol. camb. de plan de facturación	Entrada	MouseEvent-hacer clic	http://172.24.111.111:3500/ui/ad/v1/index.html	-
269	Monique	Sol. camb. de plan de facturación	Entrada	ClipboardEvent-pegar	http://172.24.111.111:3500/ui/ad/v1/index.html	-
270	Monique	Sol. camb. de plan de facturación	a	MouseEvent-hacer clic	http://172.24.111.111:3500/ui/ad/v1/index.html	-
271	Tom	Sol. camb. de plan de facturación	Entrada	FocusEvent-difuminar	http://172.24.111.111:3500/ui/ad/v1/index.html	Cambio de plan de facturación
272	Tom	Sol. camb. de plan de facturación	Entrada	FocusEvent-difuminar	http://172.24.111.111:3500/ui/ad/v1/index.html	Cambio de plan de facturación
273	Tom	Sol. camb. de plan de facturación	Entrada	MouseEvent-hacer clic	http://172.24.111.111:3500/ui/ad/v1/index.html	-
274	Tom	Sol. camb. de plan de facturación	Entrada	FocusEvent-difuminar	http://172.24.111.111:3500/ui/ad/v1/index.html	Cambio de plan de facturación
275	Tom	Sol. camb. de plan de facturación	Entrada	FocusEvent-difuminar	http://172.24.111.111:3500/ui/ad/v1/index.html	-

FIG. 7

```

1.  from flask import Flask, request
2.  from flask_restful import Resource, Api
3.  from splinter import Browser
4.  import json
5.  import time
6.  import mysql.connector
7.  app = Flask(__name__)
8.  api = Api(app)
9.
10.
11. class runrpa(Resource):
12.     def post(self):
13.         mydb = mysql.connector.connect(
14.             host="172.24.131.61",
15.             user="rpa_user",
16.             passwd="rpa_user",
17.             database="rpa"
18.         )
19.         mycursor = mydb.cursor()
20.
21.         sql = "INSERT INTO rpa_report (id, version, computed_style, dom_element_type,
event, object_dec, page_url, xpath, status) VALUES (%s, %s, %s, %s, %s, %s, %s, %s, %s)"
22.         actions = request.data
23.         rpa = json.loads(actions)
24.         variable = rpa["rpa_inputs"]
25.         with Browser() as browser:
26.             browser.visit("http://graeme-gws.live.genesys.com/ui/ad/v1/index.html")
27.             for rpa_key, rpa_value in sorted(rpa.iteritems()):
28.                 if (rpa_key == "rpa_seq"):
                     for seq in rpa_value:

```

(continua en la Figura 9...)

FIG. 8

(...continua de la Figura 8)

```
1.     try:
2.         if(seq["event"] == "click"):
3.             browser.is_element_present_by_xpath(seq["xpath"])
4.             browser.find_by_xpath(seq["xpath"]).first.click()
5.             status = "pass"
6.             print status
7.
8.             val = (seq["id"], 1, seq["computedStyle"], seq["domEle
mentType"], seq["event"], seq["objectDesc"], seq["xpath"], status)
9.             print val
10.            #reportcursor.execute(sql, val)
11.        except Exception as e:
12.            print e
13.            status = "fail"
14.            print status
15.
16.            val = (seq["id"], 1, seq["computedStyle"], seq["domElement
Type"], seq["event"], seq["objectDesc"], seq["xpath"], status)
17.            print val
18.        try:
19.            if(seq["event"] == "input"):
20.                value = seq["objectDesc"]
21.                browser.is_element_present_by_xpath(seq["xpath"])
22.
23.                browser.find_by_xpath(seq["xpath"]).fill(variable[valu
e])
24.
25.                status = "pass"
26.                print status
27.
28.                val = (seq["id"], 1, seq["computedStyle"], seq["domEle
mentType"], seq["event"], seq["objectDesc"], seq["xpath"], status)
29.                print val
30.            except Exception as e:
31.                print e
32.                status = "fail"
33.                print status
34.
35.                val = (seq["id"], 1, seq["computedStyle"], seq["domElement
Type"], seq["event"], seq["objectDesc"], seq["xpath"], status)
36.                print val
37.            time.sleep(20)
38.
39.        return(actions)
40.
41.    api.add_resource(runrpa, '/runrpa')
42.
43.    if __name__ == '__main__':
44.        app.run(port='5002')
```

FIG. 9