(19) **United States**

(12) **Patent Application Publication** (10) Pub. No.: **US 2012/0016932 A1**

de Castro, JR. et al. (43) **Pub. Date:** **Jan. 19, 2012**

(54) **SYSTEM AND METHOD FOR TELEPHONY AND COMMUNICATION SERVICES WITH MESSAGE-BASED API**

(75) Inventors: **Jose Maria de Castro, JR.**, Orlando, FL (US); **Neil Stratford**, Ely (GB); **Wei Chen**, Saratoga, CA (US); **Zhiyu Liu**, Beijing (CN); **Xiaopu Zhu**, Beijing (CN); **Jason Scott Goecke**, San Carlos, CA (US)

(73) Assignee: **Voxeo Corporation**, Orlando, FL (US)
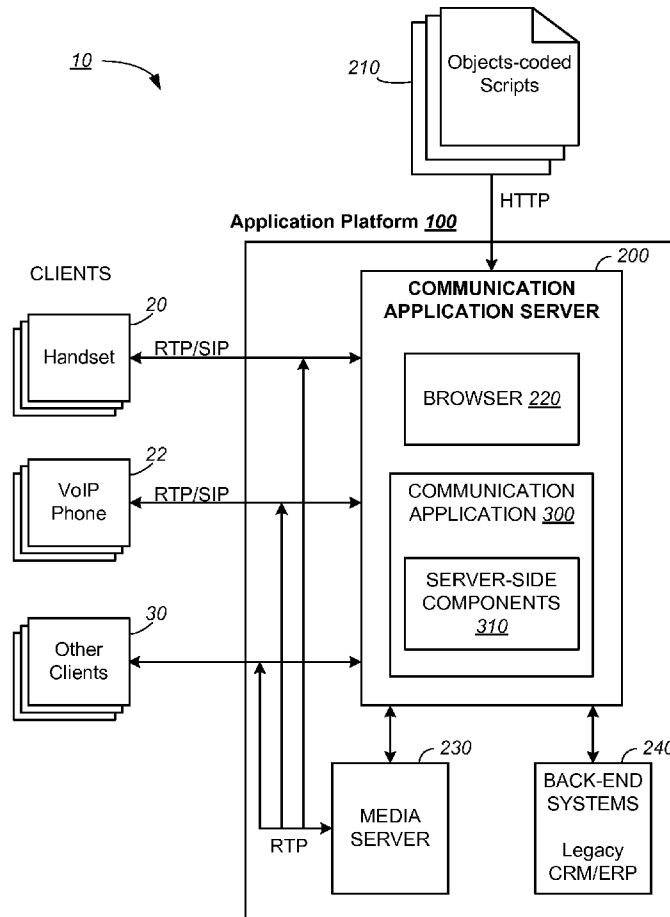
(21) Appl. No.: **13/187,253**

(22) Filed: **Jul. 20, 2011**

Related U.S. Application Data

(63) Continuation-in-part of application No. 13/088,396, filed on Apr. 17, 2011.

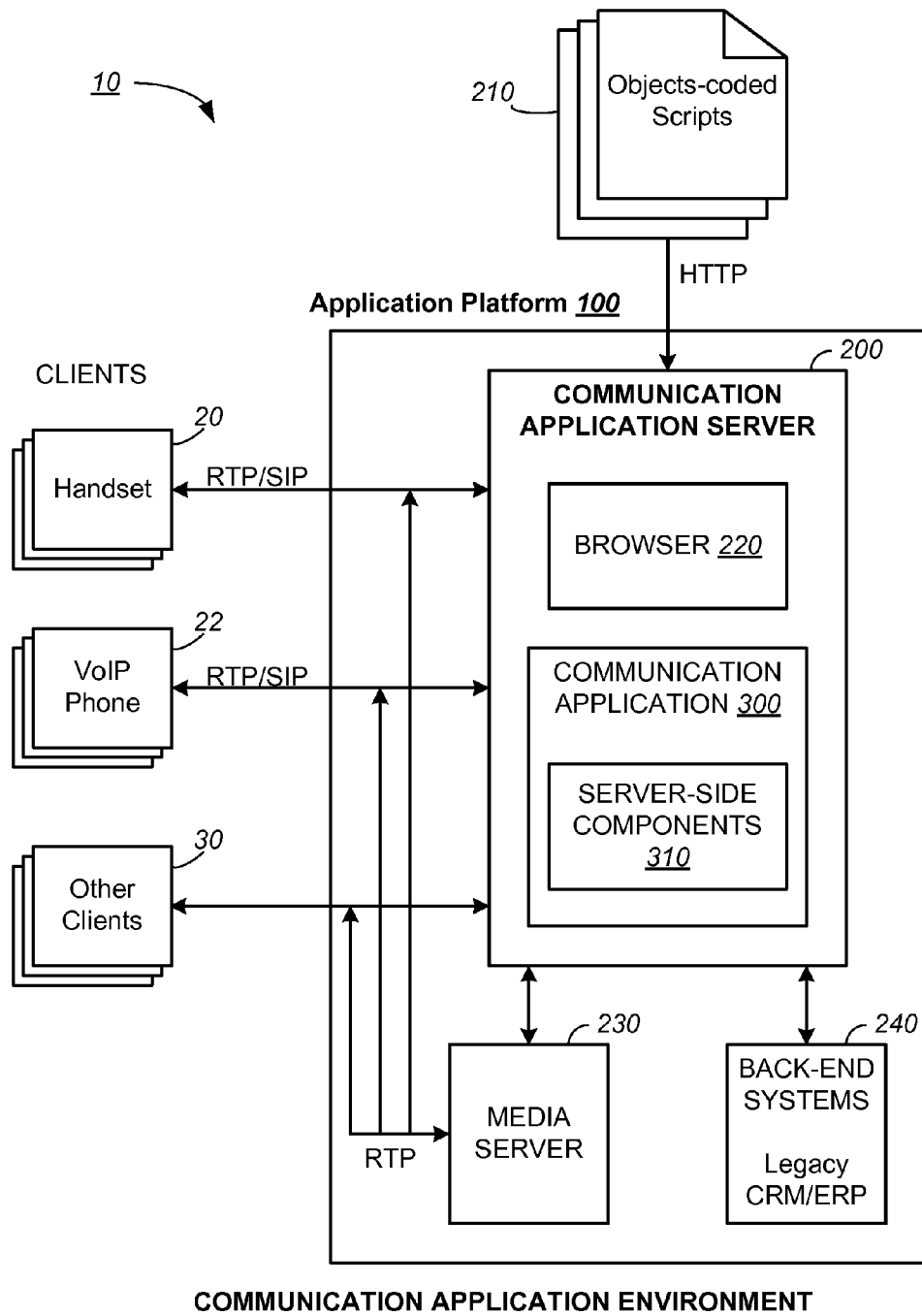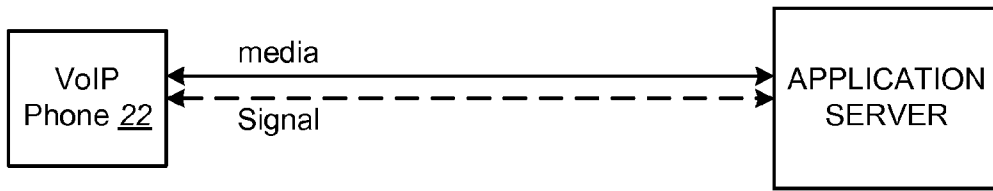(60) Provisional application No. 61/325,355, filed on Apr. 18, 2010.

Publication Classification

(51) **Int. Cl.**
G06F 15/16 (2006.01)

(52) **U.S. Cl.** **709/203**

(57) **ABSTRACT**

A communication application server is provided with a unified framework for call control and media control. The framework supports a unified API having class objects and functions conforming to a telephony object model. The class objects are invoked and manipulated by a finite set of commands and an application program essentially issues a series of such commands to operate the communication application server. More particularly, an API server on the communication application server defining a messaging API protocol enables an application script to pass commands remotely to the communication application server to operate it. This allows application scripts to be processed remotely by appropriate scripting engines. In this way, application scripting is decoupled from the operation of the communication application server, which only needs to focus on providing basic communication services.

FIG. 1

CALL Server

FIG. 2A

CALL another Endpoint

FIG. 2B
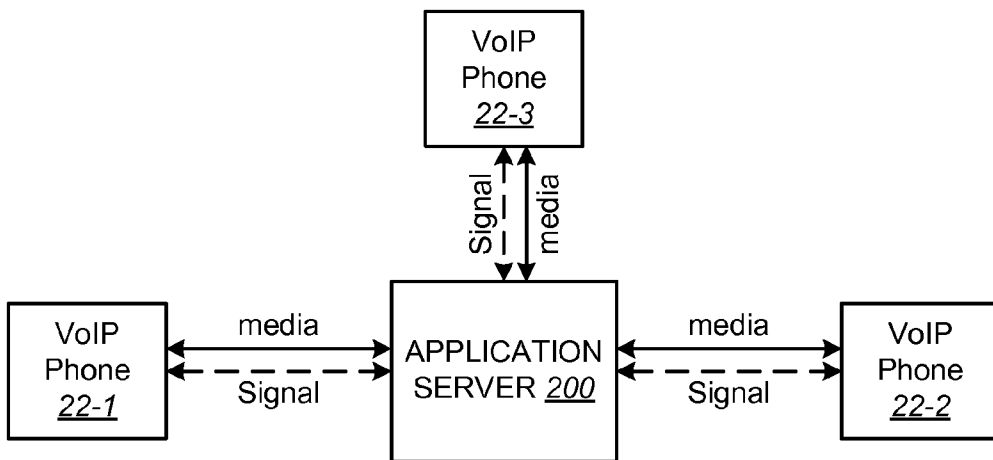
CALL Conference

FIG. 2C

COMMUNICATION APPLICATION *300*

SERVER-SIDE COMPONENTS *310*

330

Call Control
Objects

320

SIP Servlets

Media Control
Objects

SIP Servlet
Call Control API
(e.g. JSR 289)

350

Media Control API
(e.g. JSR 309)

360

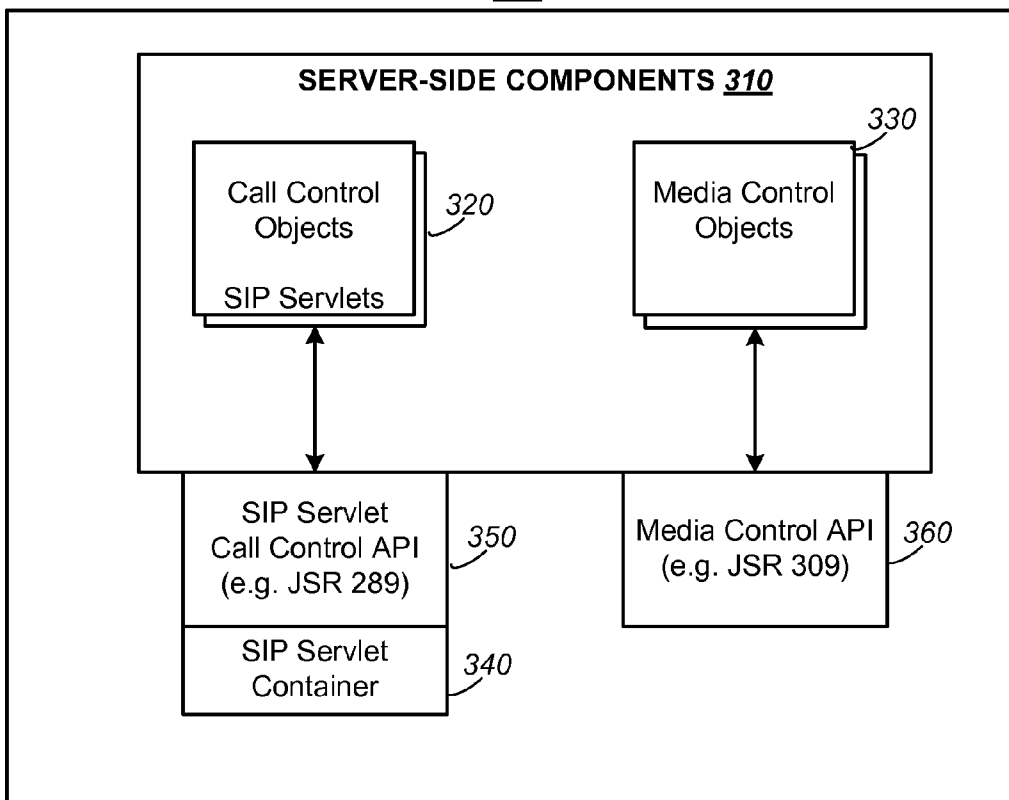SIP Servlet
Container

340

FIG. 3A   *(PRIOR ART)*

FIG. 3B   (PRIOR ART)

DOCKET ALARM
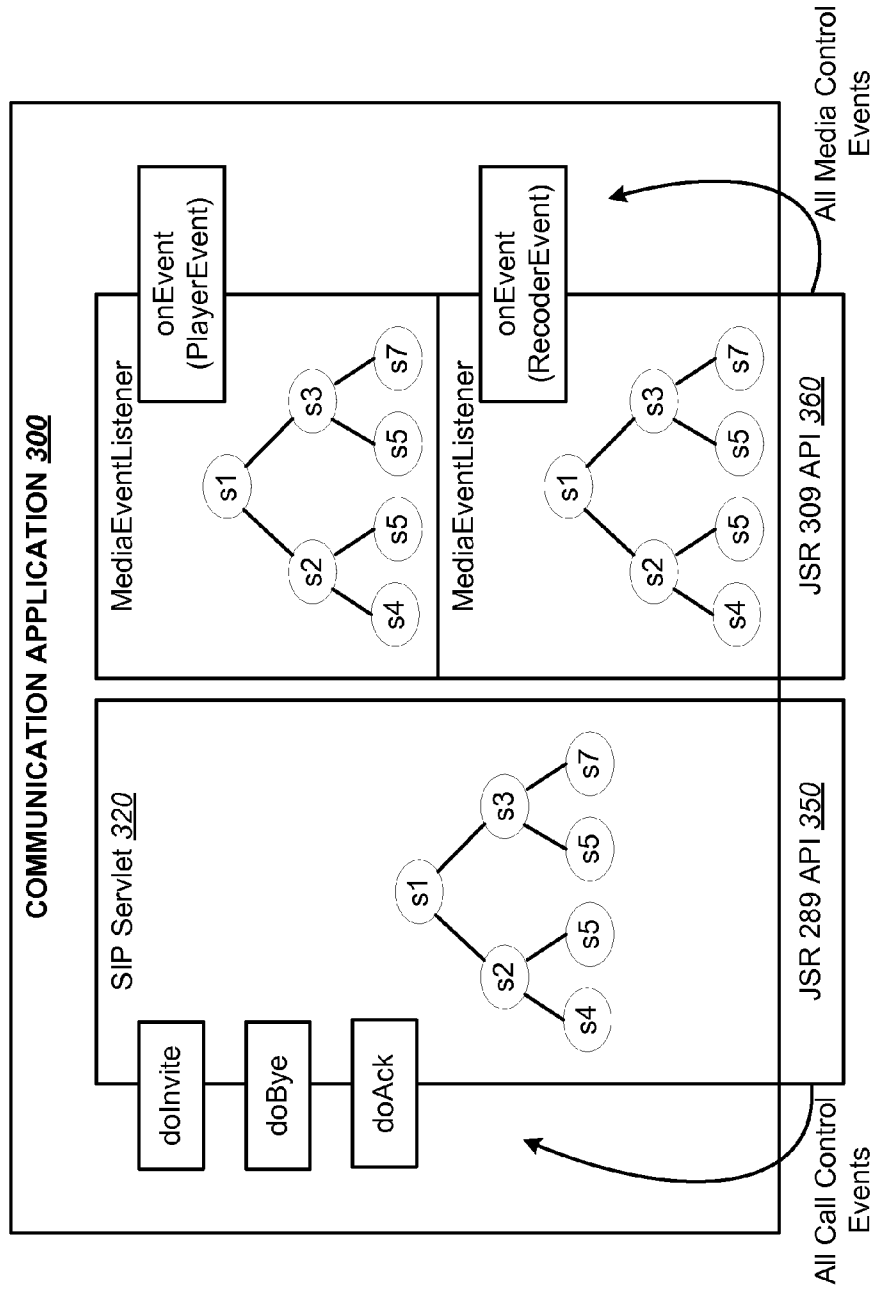
Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts

Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research

With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips

Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS
Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS
Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS
Sync your system to PACER to automate legal marketing.