

[54] **SYSTEM AND METHOD FOR CONTROLLING ACCESS TO A TELEPHONY DATABASE**

[75] Inventors: **Tasvir Shah**, Irving; **Mark A. Harrison**, Fort Worth; **Matthew Bilbo**, Bedford, all of Tex.

[73] Assignee: **Alcatel USA Sourcing, L.P.**, Plano, Tex.

[21] Appl. No.: **08/948,161**

[22] Filed: **Oct. 9, 1997**

[51] **Int. Cl.**⁷ **G06F 17/30**; G06F 3/14

[52] **U.S. Cl.** **707/10**; 707/102; 345/333

[58] **Field of Search** 707/1-10, 100-104, 707/200-206; 345/326-334, 339, 357; 709/203, 213, 219, 223; 379/16, 211, 212, 230, 219, 220, 305, 201, 265

[56] **References Cited**

U.S. PATENT DOCUMENTS

5,455,853	10/1995	Cebulka et al.	379/201
5,495,567	2/1996	Iizawa et al.	345/334
5,628,004	5/1997	Gormley et al.	707/104
5,727,057	3/1998	Emery et al.	379/211
5,737,533	4/1998	De Hond	709/219
5,806,057	9/1998	Gormley et al.	707/1
5,859,972	1/1999	Subramaniam et al.	709/203
5,878,418	3/1999	Polcyn et al.	707/10
5,913,029	6/1999	Shostak	395/200.33

FOREIGN PATENT DOCUMENTS

9405111	3/1994	WIPO	H04M 11/00
9744943	11/1997	WIPO	H04M 3/42

OTHER PUBLICATIONS

M. Genette, et al., "Intelligent Network: the Service Creation Environment", *Commutation & Transmission*, vol. 17, No. 2, Jan. 1, 1995, pp. 13-20.

P. Fregelius, "Neue Dienste und Anwendungen dank Intelligentem Netz", *Tec. Das Technische Magazin Von Ascom*, No. 2, Jan. 1, 1992, pp. 16-20.

PCT Search Report, dated Feb. 15, 1999.

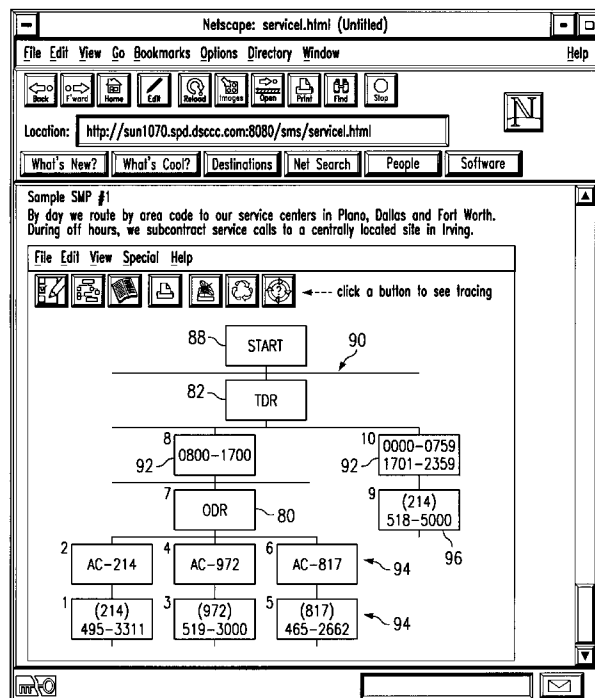
Primary Examiner—Ruay Lian Ho

Attorney, Agent, or Firm—Baker Botts L.L.P.

[57] **ABSTRACT**

A flexible service management system creates, provisions, customizes, and restricts service offerings available on an intelligent network. A service creation environment has a schema query, service screen builder, and logic analyzer that cooperate to create a service screen definition. The service screen definition supports graphical user interfaces that interface with a telephony database. The service screen definition is deployed to a service management system within a service definition package, the service management system interfacing with a telephony database storing telephony data for supporting a service. The service screen definition enables a screen interpreter that can reside on a service management access point to communicate and transact data with the telephony database. The screen interpreter interprets the service screen definition to allow and control access to telephony data and to direct provisioning of services to network elements, such as a service control point, that perform service functions according to customized subscription data in the telephony database. The graphical user interface can communicate through the world wide web to allow customer or other data entry operator access to data on a filtered or restricted basis.

33 Claims, 8 Drawing Sheets



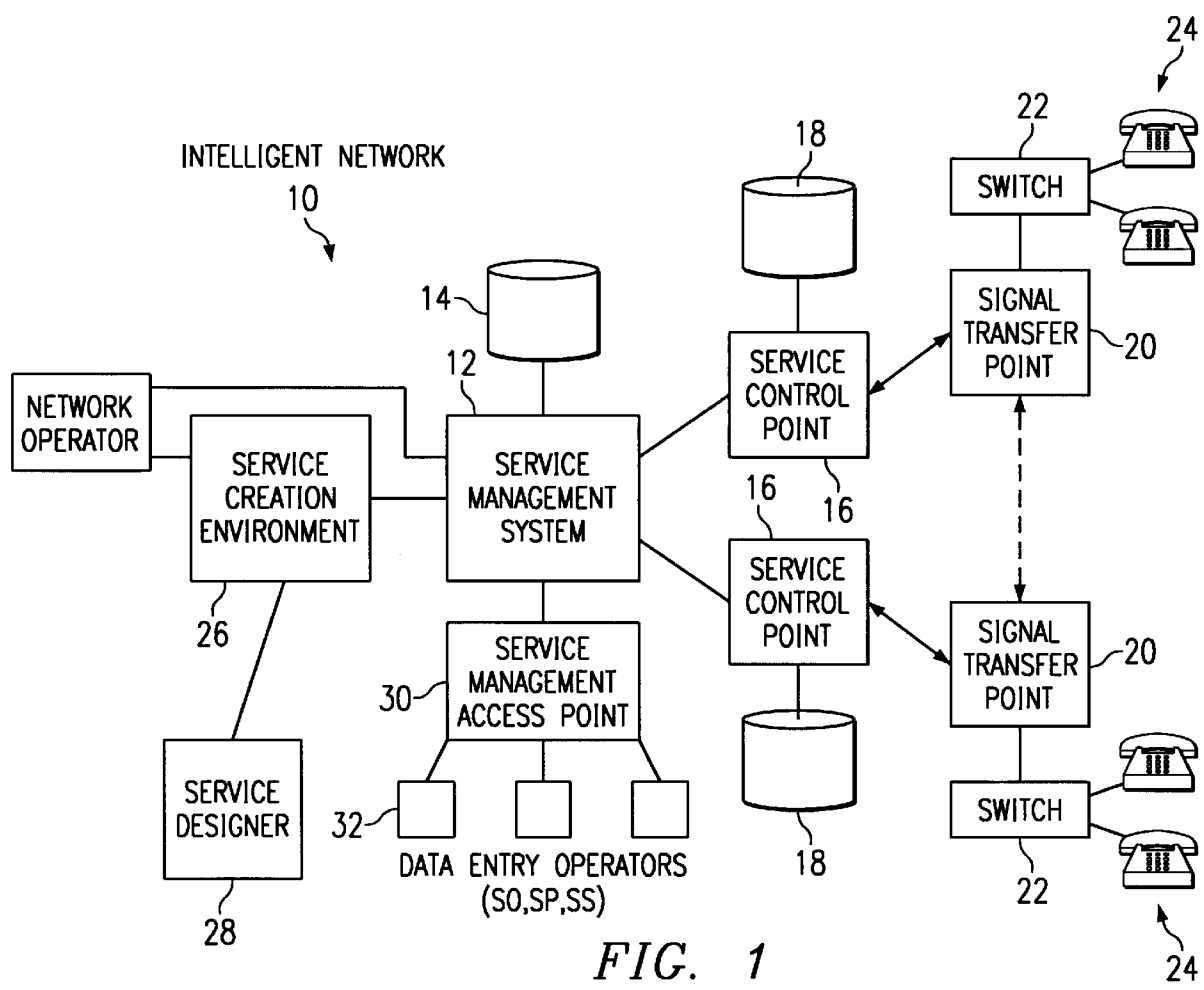


FIG. 1

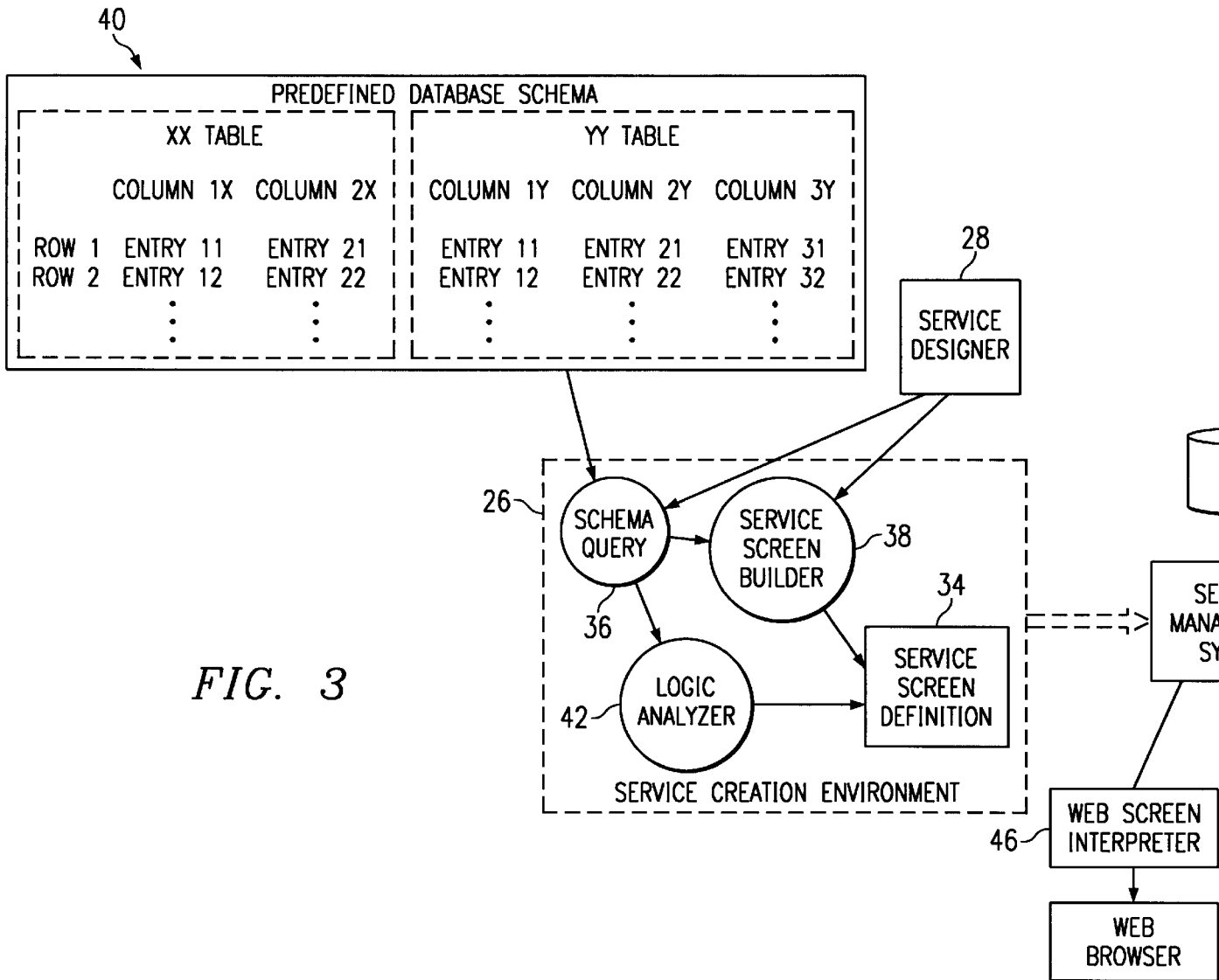


FIG. 3

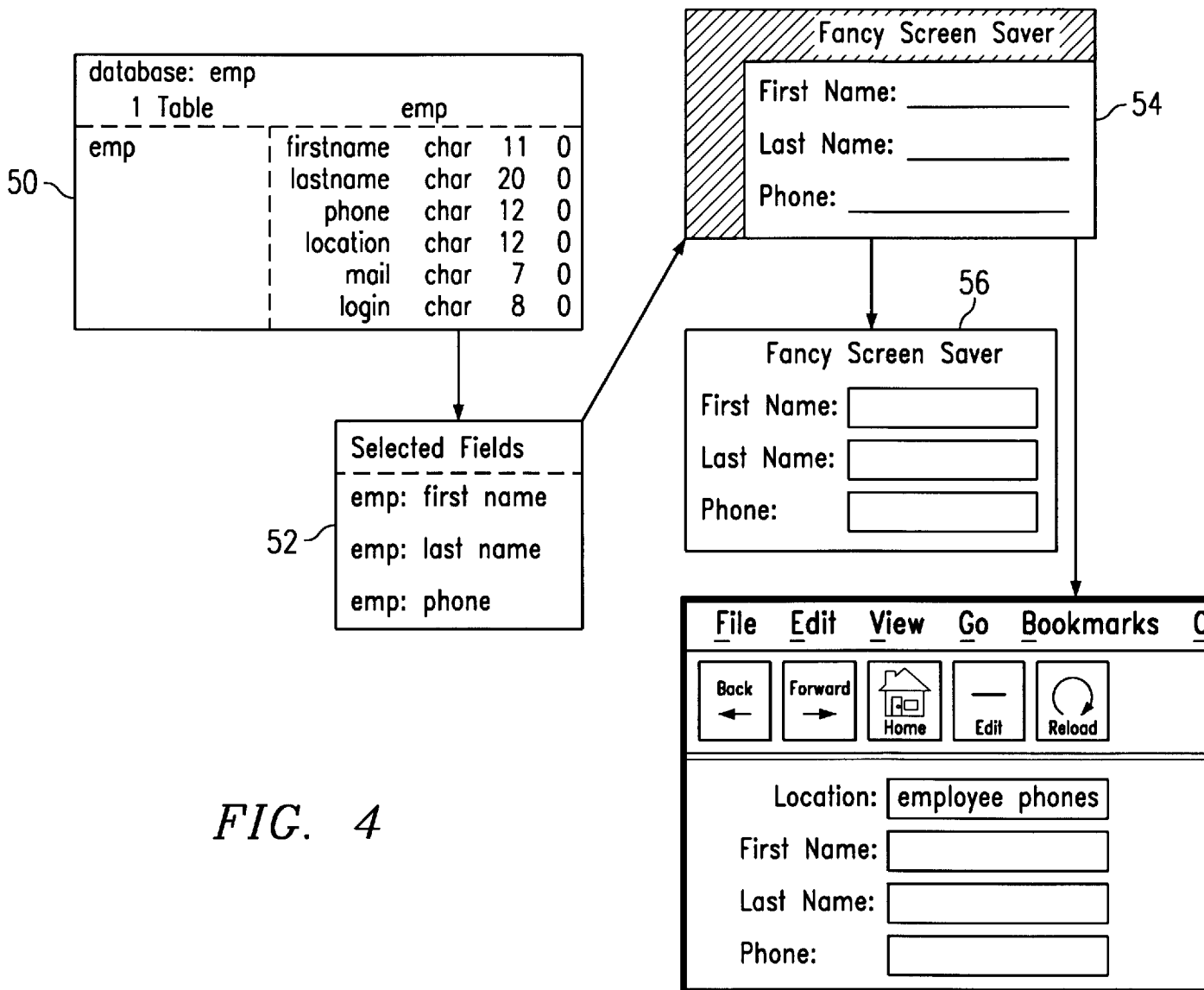


FIG. 4

IDENTIFICATION TABLE			SERVICES TABLE		
NAME	PSN	CREDIT NUMBER	PSN	CALL WAITING	CALL FORWARD
MARK	96517	0000	96517	Y	N
⋮					

FIG. 5

SERVICE INFORMATION

NAME	MARK
PHONE NUMBER	96517
CALL WAITING	<input checked="" type="checkbox"/>
CALL FORWARD	<input type="checkbox"/>

FIG. 5A

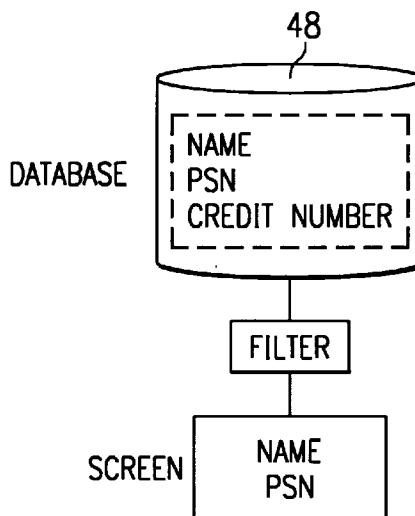


FIG. 5B

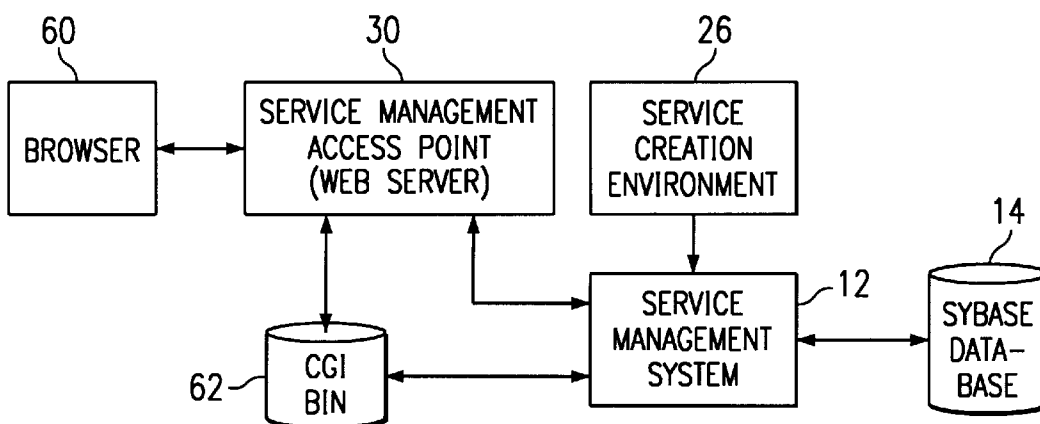


FIG. 6

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.