

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

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[51] **Int. Cl.**<sup>7</sup> ..... **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

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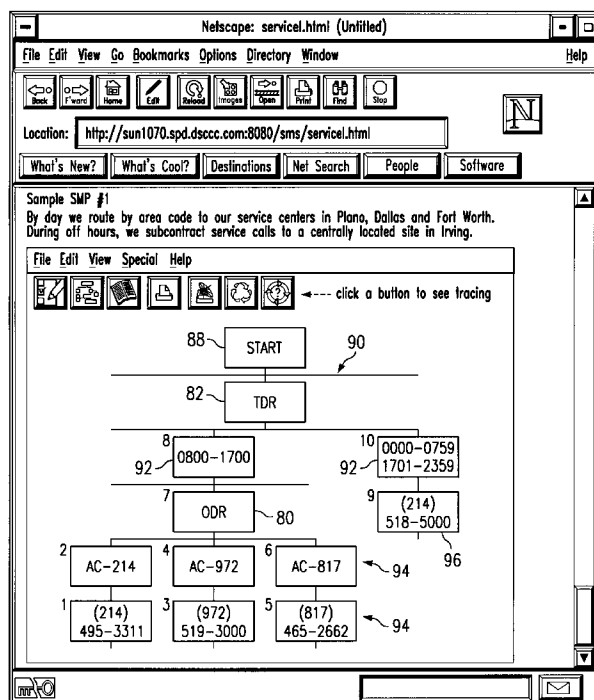
*Primary Examiner*—Ruay Lian Ho

*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**



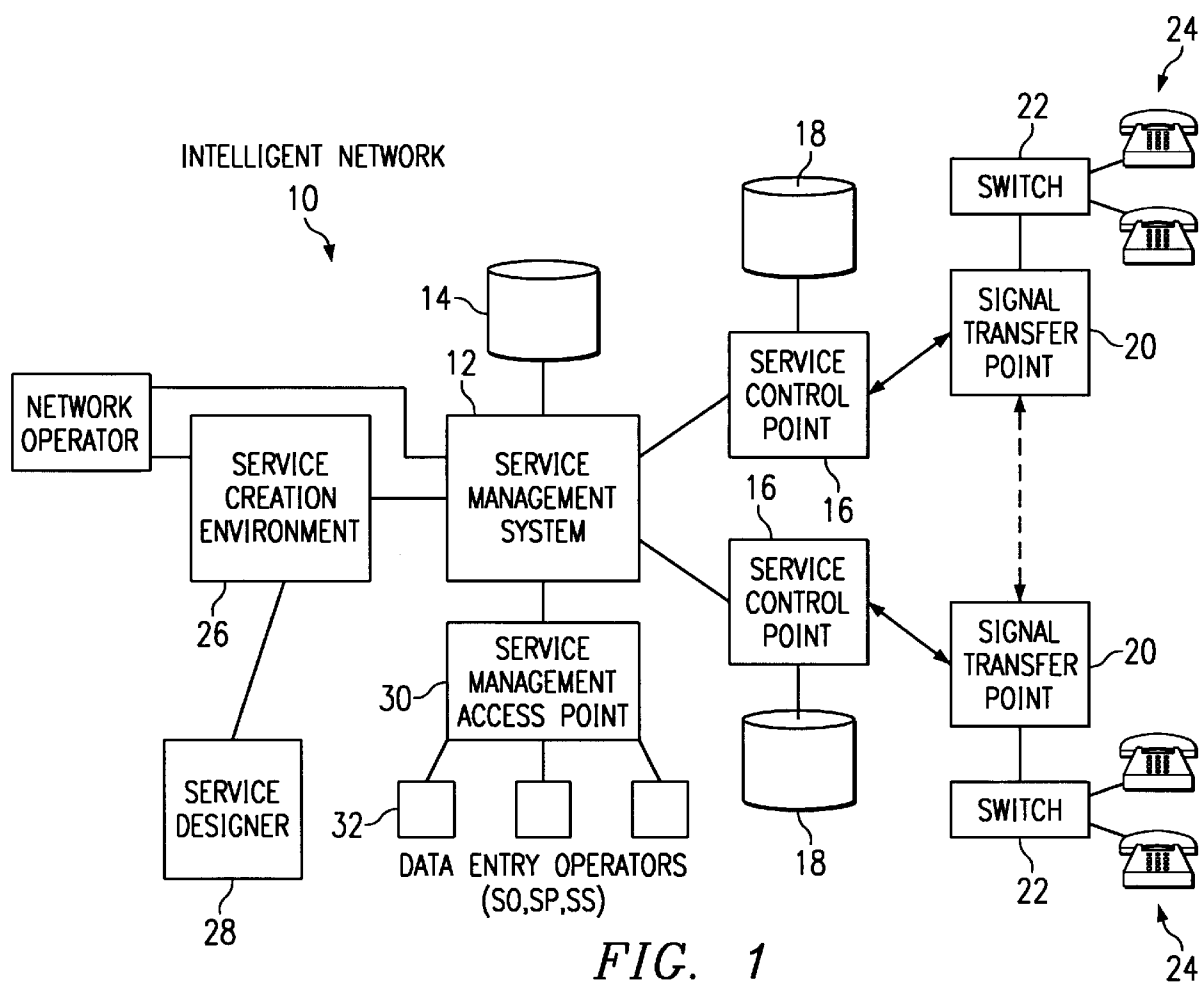


FIG. 1

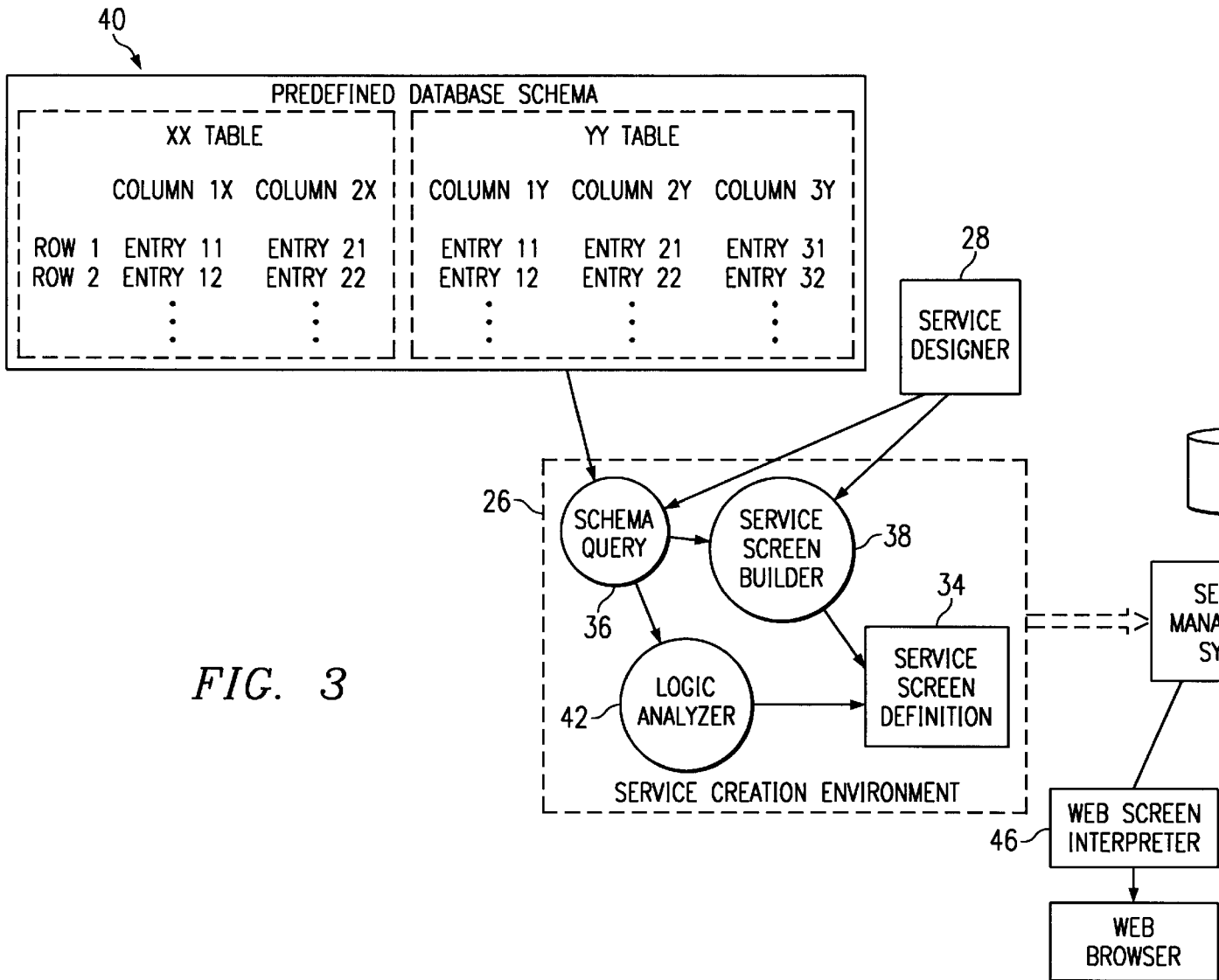


FIG. 3

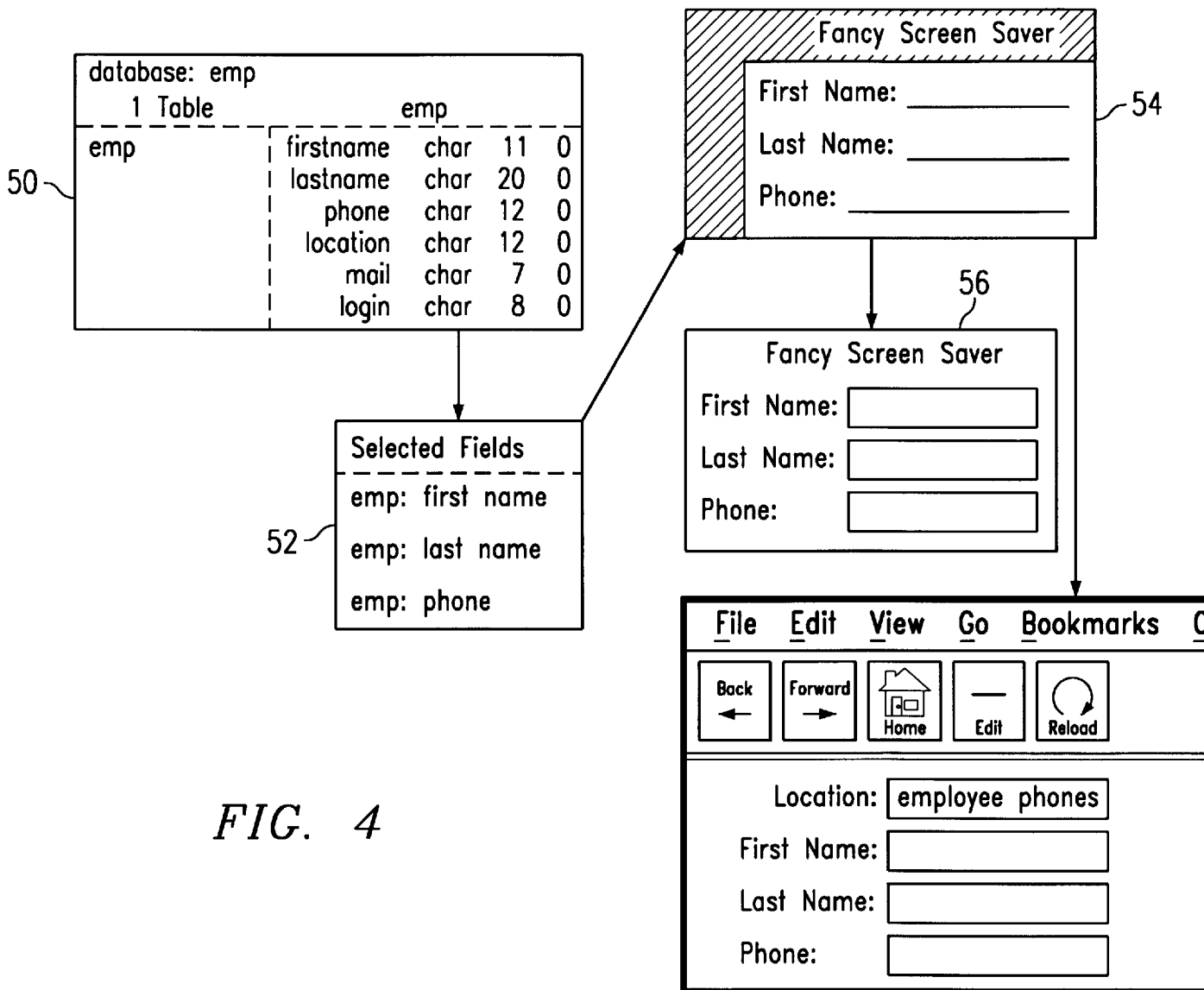


FIG. 4

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

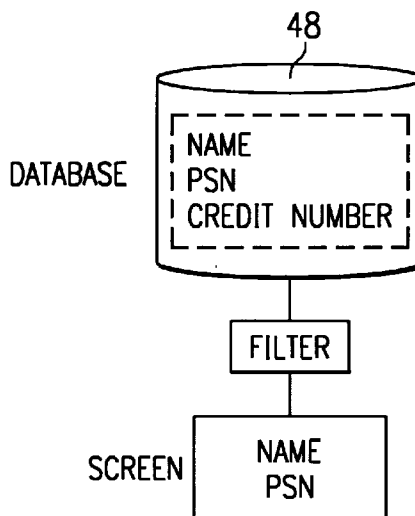


FIG. 5B

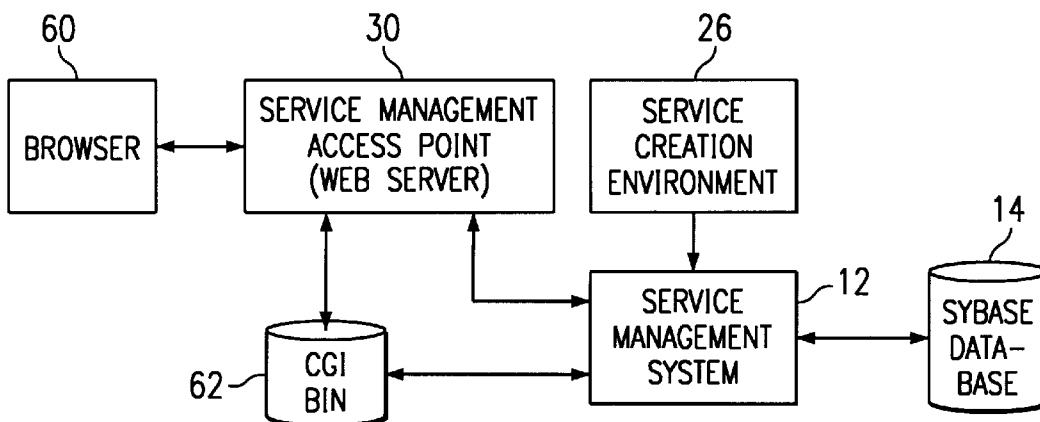


FIG. 6

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