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United States Patent [19]

McMullin

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[54] **METHOD AND APPARATUS PERMITTING NOTIFICATION AND CONTROL OF BLOCKED INCOMING CALLS OVER A DATA NETWORK**

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[52] **U.S. Cl.** **379/215**; 379/93.35; 379/211; 370/352

[58] **Field of Search** 379/215, 93.35, 379/93.01, 201, 209, 211; 370/352

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[57] **ABSTRACT**

Methods and apparatus are disclosed for providing automatic redirection of an incoming voice telephone call from a caller to a subscriber proxy when an attempt by the caller to connect to a telephone link of a public switched telephone network (PSTN) is blocked due to the telephone link being occupied by a subscriber using the telephone link to establish communications between the subscriber's personal computer and a computer network. The subscriber proxy is connected to both the PSTN and the computer network, and produces audio interaction with the caller. The subscriber proxy also notifies the subscriber of the incoming call via the subscriber's computer. The subscriber's computer can optionally be used by the subscriber to control and interact with the incoming call by communicating with the computer proxy while the subscriber continues to occupy the telephone link.
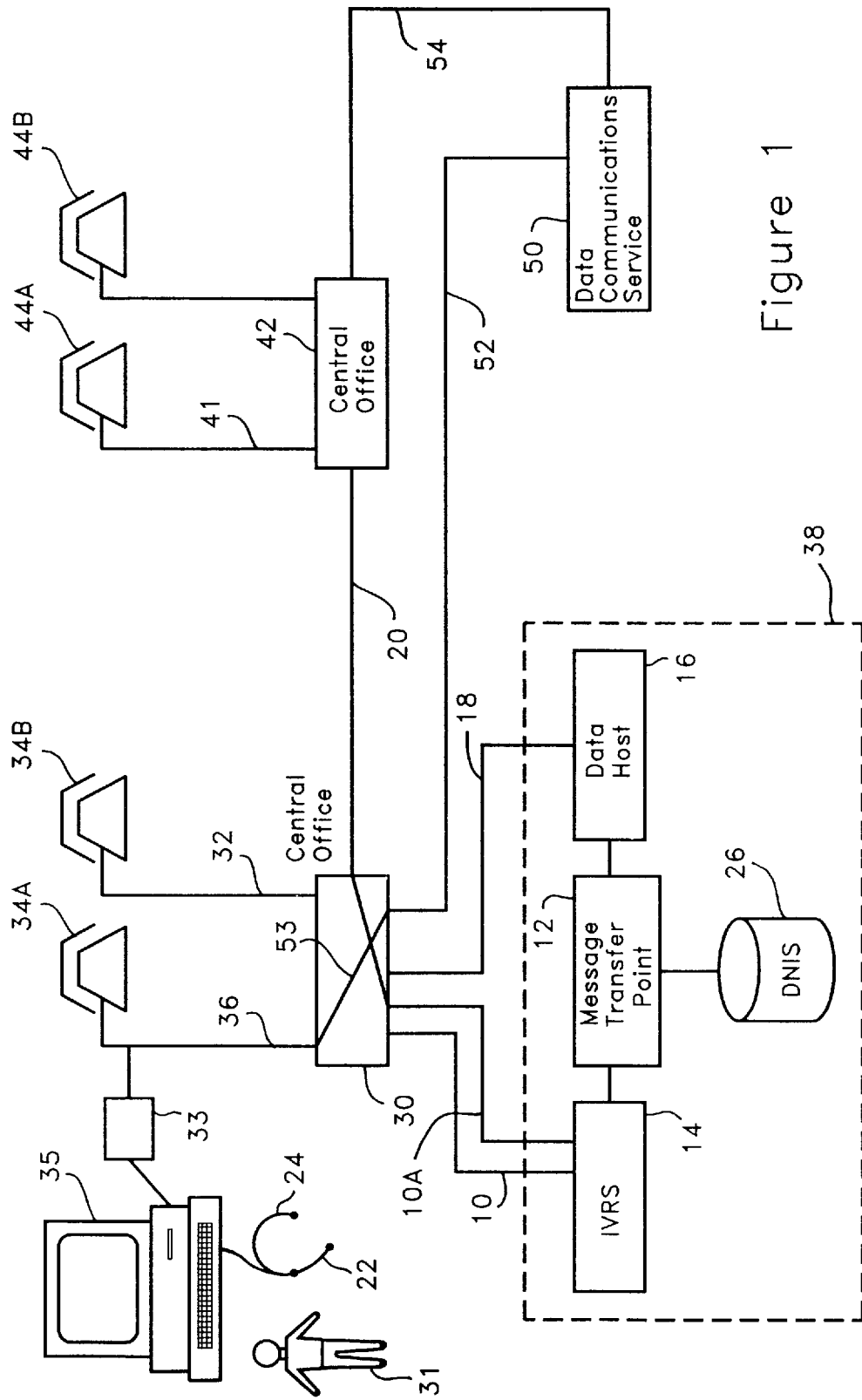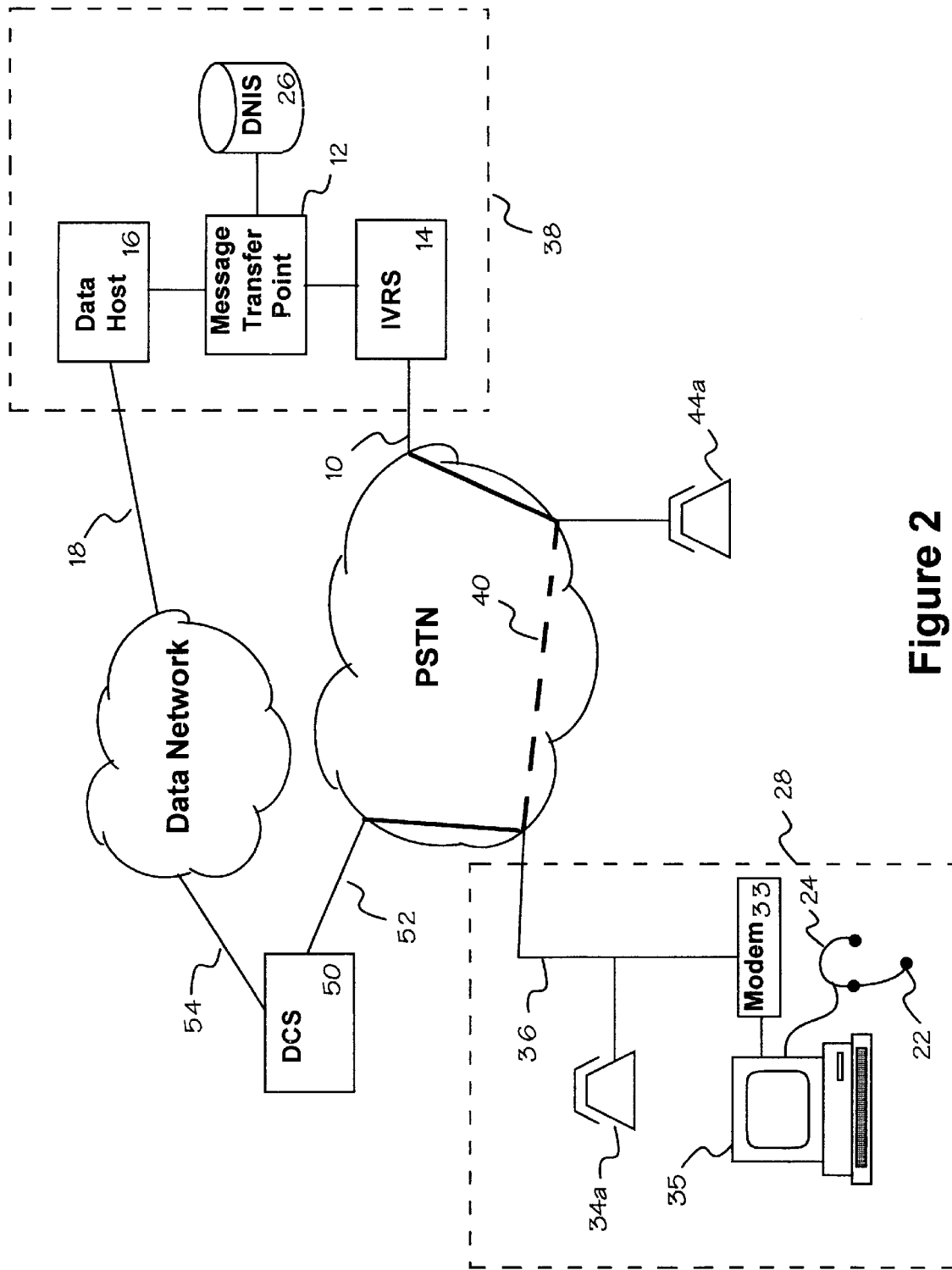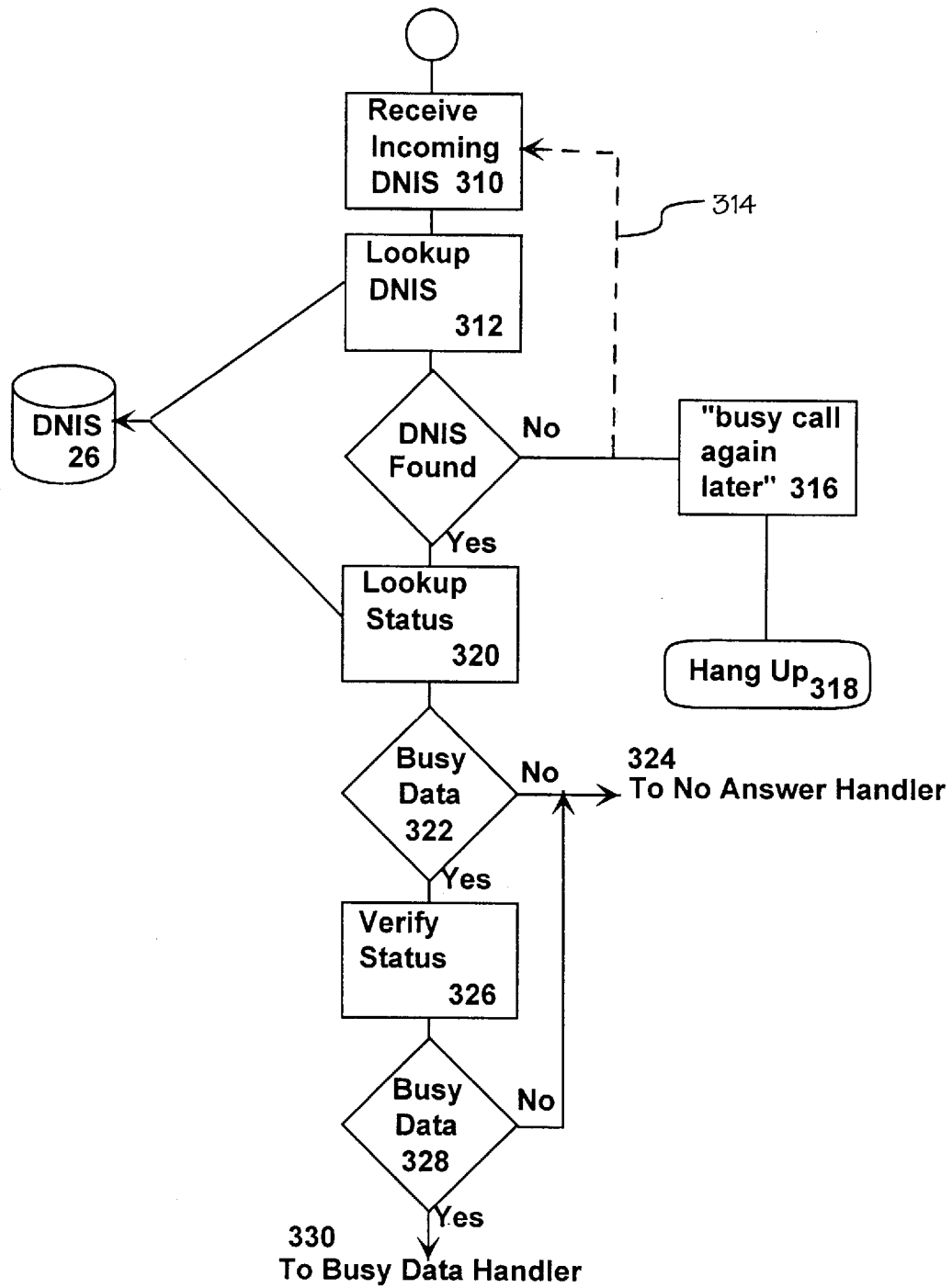
50 Claims, 5 Drawing Sheets

Figure 1

Figure 2

Receive Incoming DNIS 310

314

Lookup DNIS 312

DNIS 26

DNIS Found

No

"busy call again later" 316

Yes

Lookup Status 320

Hang Up 318

Busy Data 322

No

324
To No Answer Handler

Yes

Verify Status 326

Busy Data 328

No

Yes

330
To Busy Data Handler

Figure 3

No Answer Handler
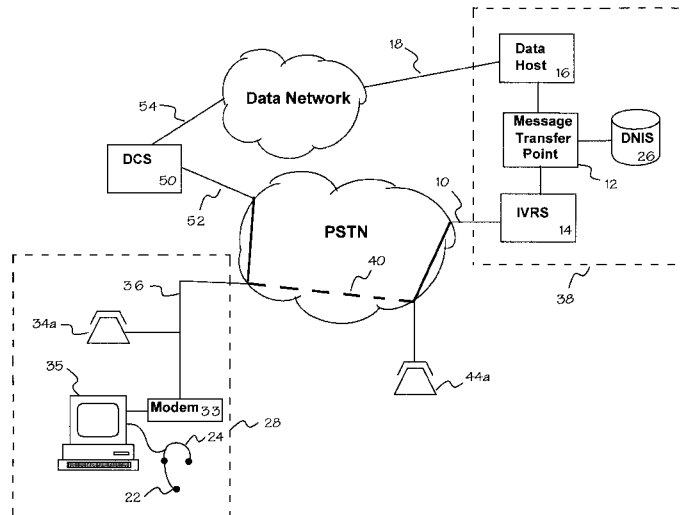
Figure 4

DOCKET ALARM
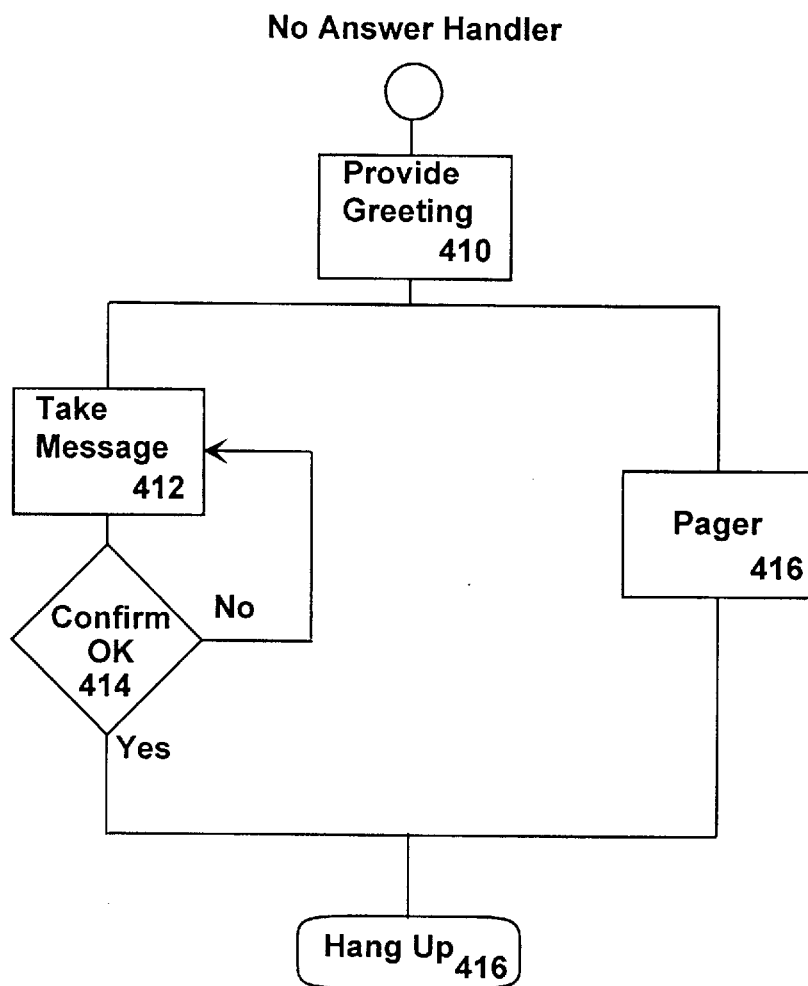
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