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# United States Patent [19]

[11] **Patent Number:** **5,533,110**

**Pinard et al.**

[45] **Date of Patent:** **Jul. 2, 1996**

[54] **HUMAN MACHINE INTERFACE FOR TELEPHONE FEATURE INVOCATION**

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[57] **ABSTRACT**

[73] Assignee: **Mitel Corporation**, Canada

A method of providing a visual indication to a first communication connection (CC) subscriber of the status of a telephone CC comprising the steps of providing an icon on a display that represents the first CC subscriber, providing a call setup icon on a display representing a command to set up a CC, dragging the icon representing the first CC subscriber to the call setup icon, automatically displaying a directory of subscribers, dragging an identity of a second CC subscriber from the directory to the call setup icon, establishing a CC between communication apparatus used by the first subscriber and communication apparatus used by the second CC subscriber via subscriber's lines, changing the identity of the call setup icon to a call icon, displaying an icon representing the second CC subscriber in the call icon, and displaying a new call setup icon, whereby icons representing CC subscribers of a call in progress are both represented and are visually discernible by the first CC subscriber in the call icon.

[21] Appl. No.: **346,600**

[22] Filed: **Nov. 29, 1994**

[51] **Int. Cl.<sup>6</sup>** ..... **H04M 3/42**

[52] **U.S. Cl.** ..... **379/201; 379/202; 379/96; 379/112; 379/393**

[58] **Field of Search** ..... **379/201, 202, 379/204, 203, 205, 112, 96, 393; 370/62, 110.1**

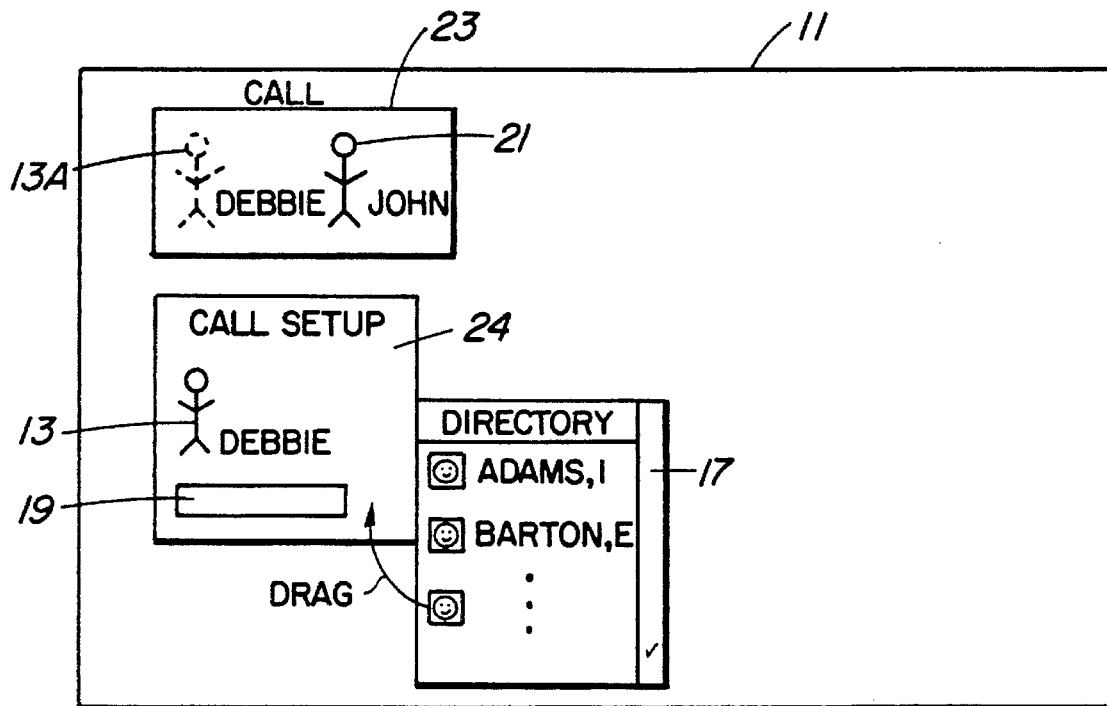
[56] **References Cited**

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*Primary Examiner*—Jeffery Hofsass

**19 Claims, 8 Drawing Sheets**



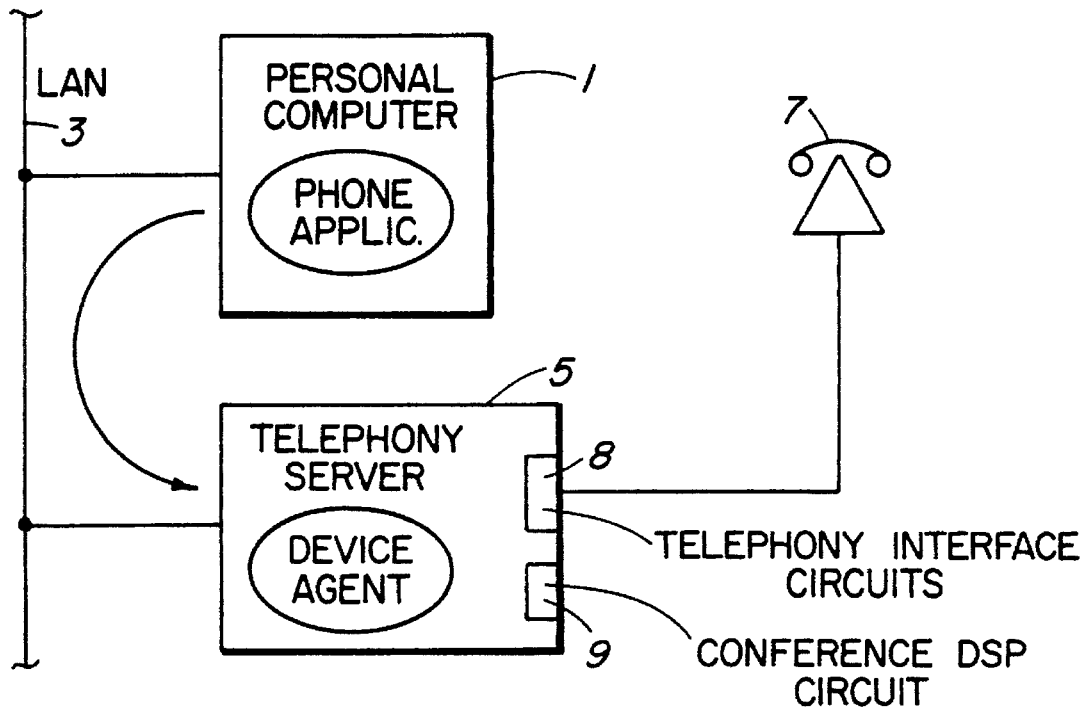


FIG. 1

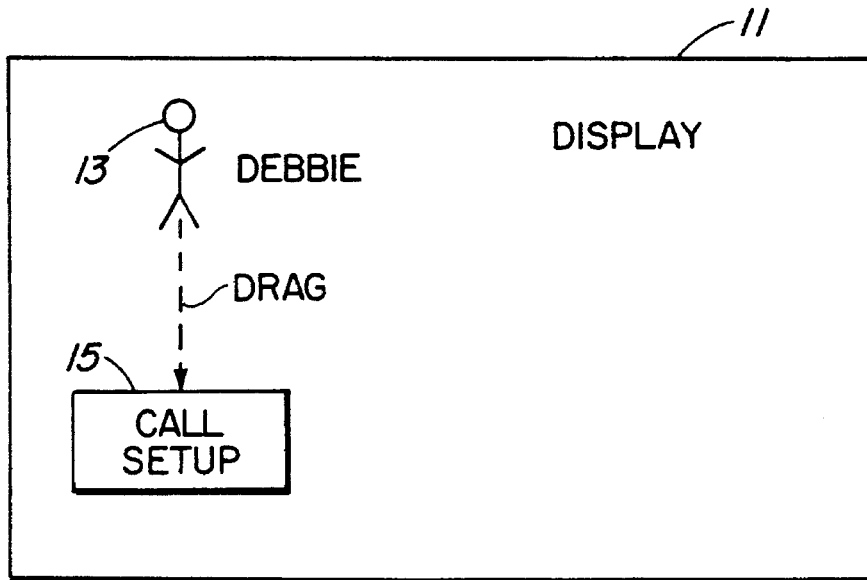


FIG. 2

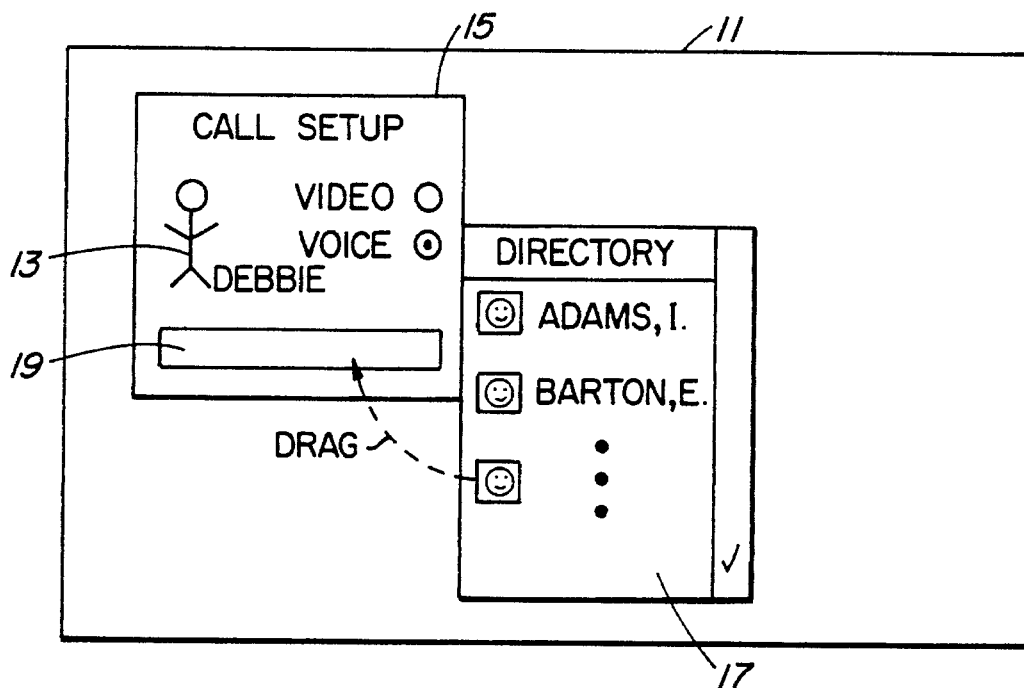


FIG. 3

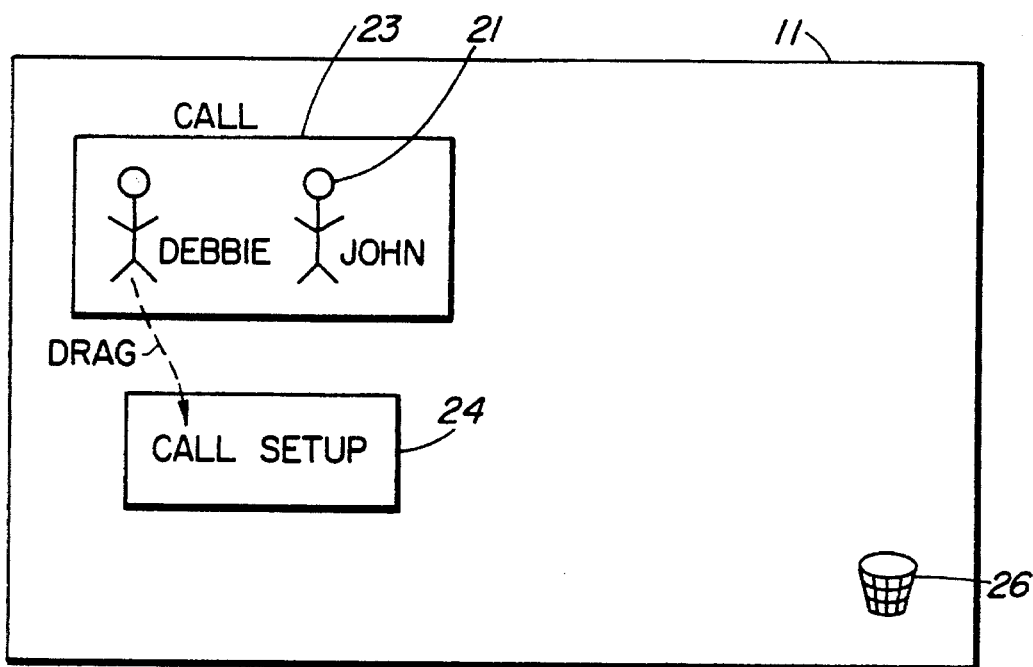


FIG. 4

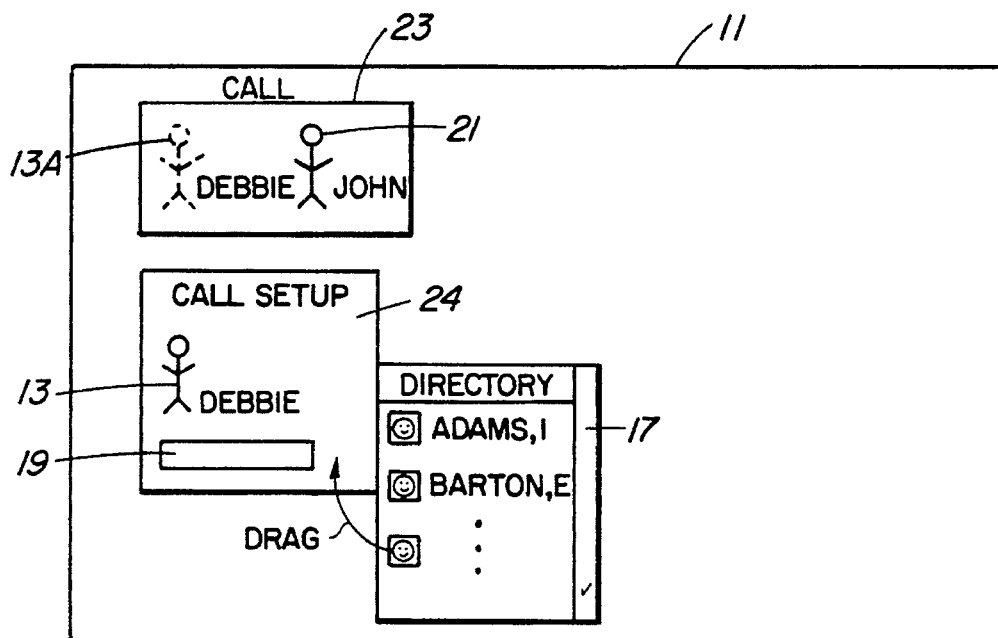


FIG. 5

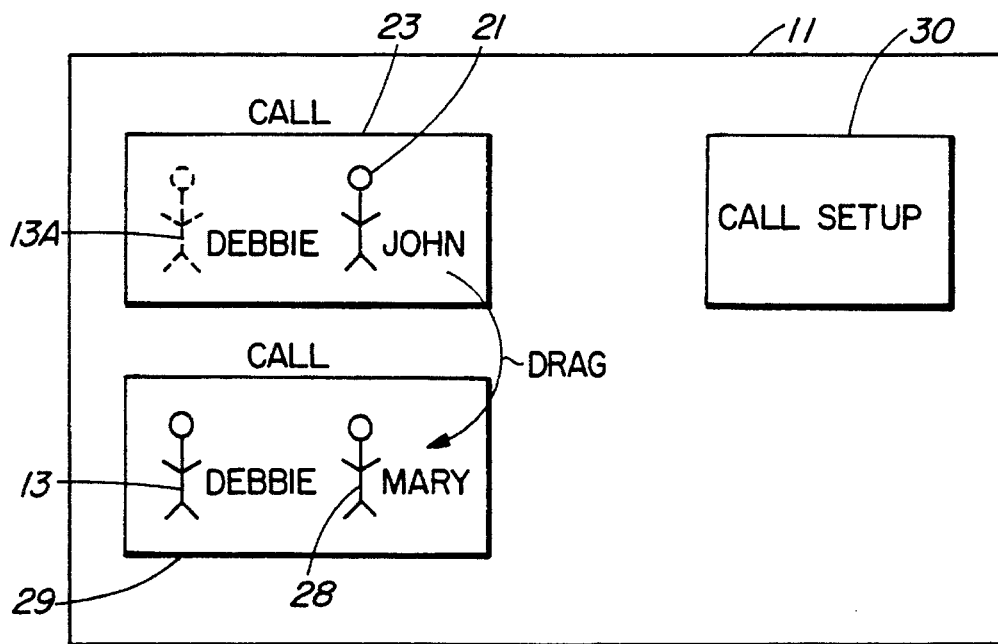


FIG. 6

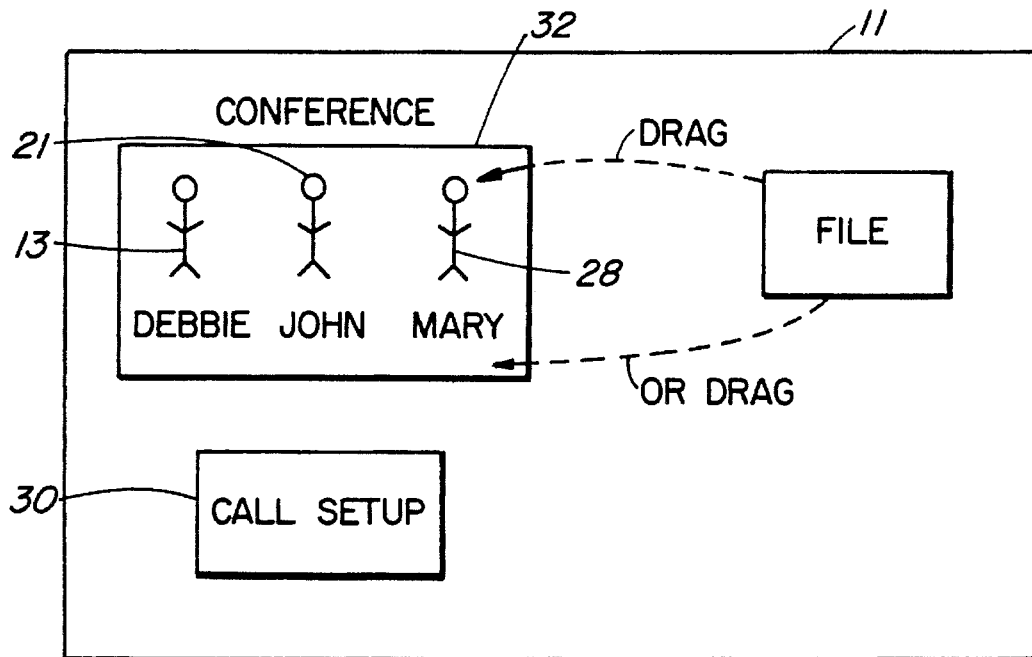


FIG. 7

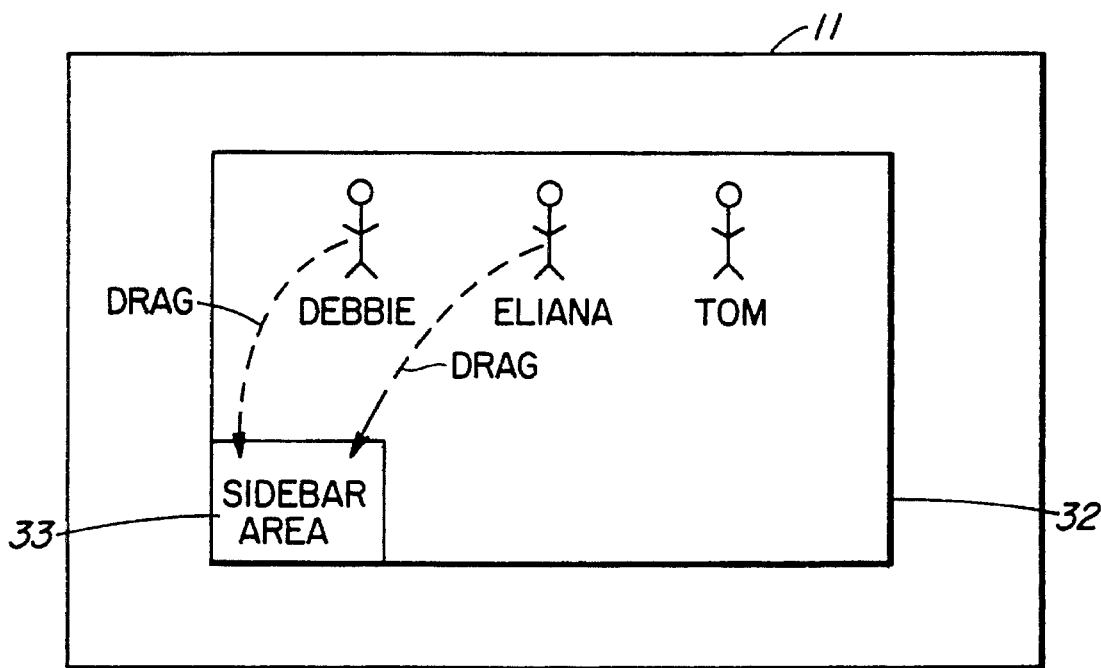


FIG. 7A

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