

(12) **United States Patent**
Wood et al.

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(54) **TELEPHONE CALL CONTROL SYSTEM FOR THE PUBLIC SWITCHED TELEPHONE NETWORK**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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This patent is subject to a terminal disclaimer.

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(57) **ABSTRACT**

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In one embodiment, the system includes a processor (referred to herein as a tandem access controller) connected to the PSTN which would allow anyone to directly provision, that is to say set-up and make immediate changes to, the configuration of his or her phone line. In another embodiment, a tandem access controller (TAC) subsystem is connected internally to the PSTN in a local service area. The TAC provides features, selected by the subscriber, to all edge switches connected to the PSTN tandem switch. In one embodiment, the TAC is controlled by the subscriber using the web.

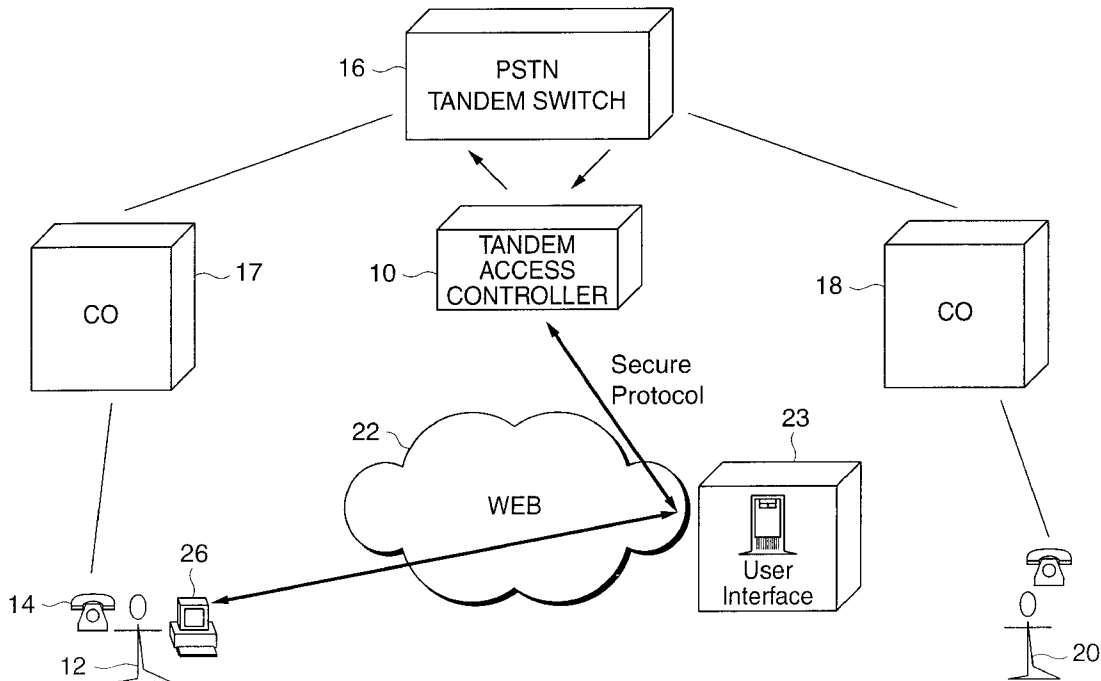
(51) **Int. Cl.⁷** **H04M 7/00**
 (52) **U.S. Cl.** **379/224; 379/221.08; 379/221.11**
 (58) **Field of Search** **379/224, 221.08, 379/221.11**

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8 Claims, 9 Drawing Sheets



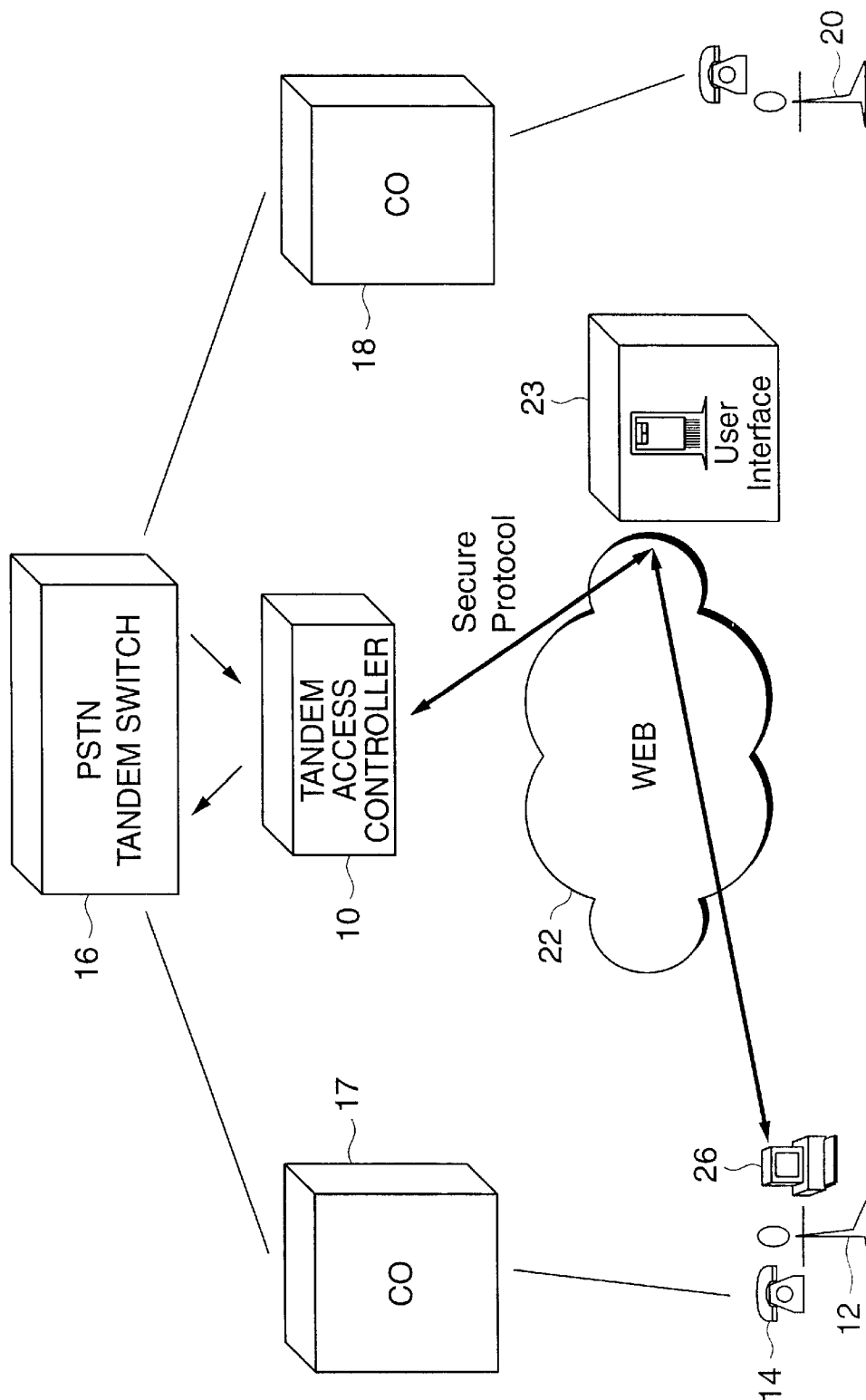


FIG. 1

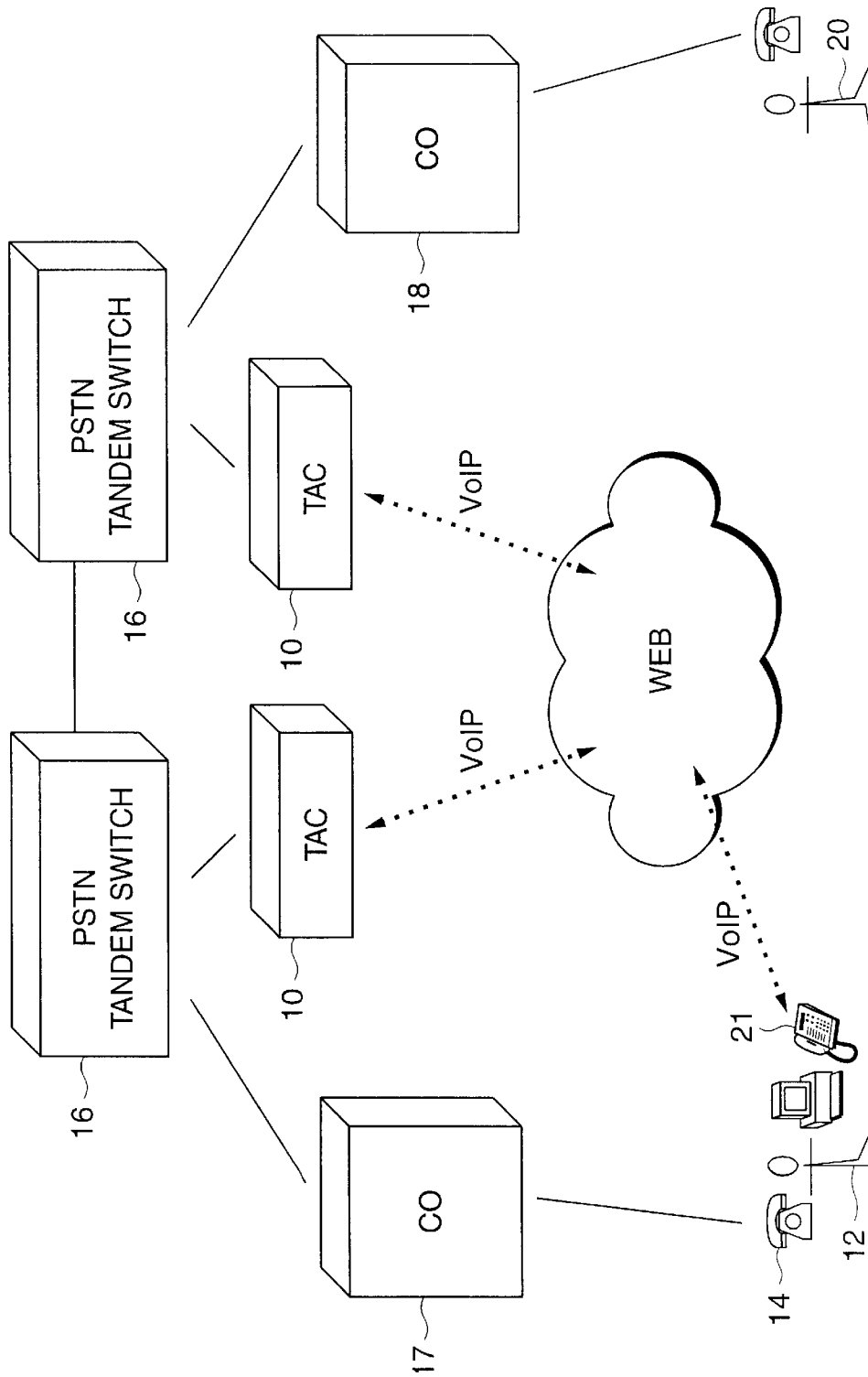
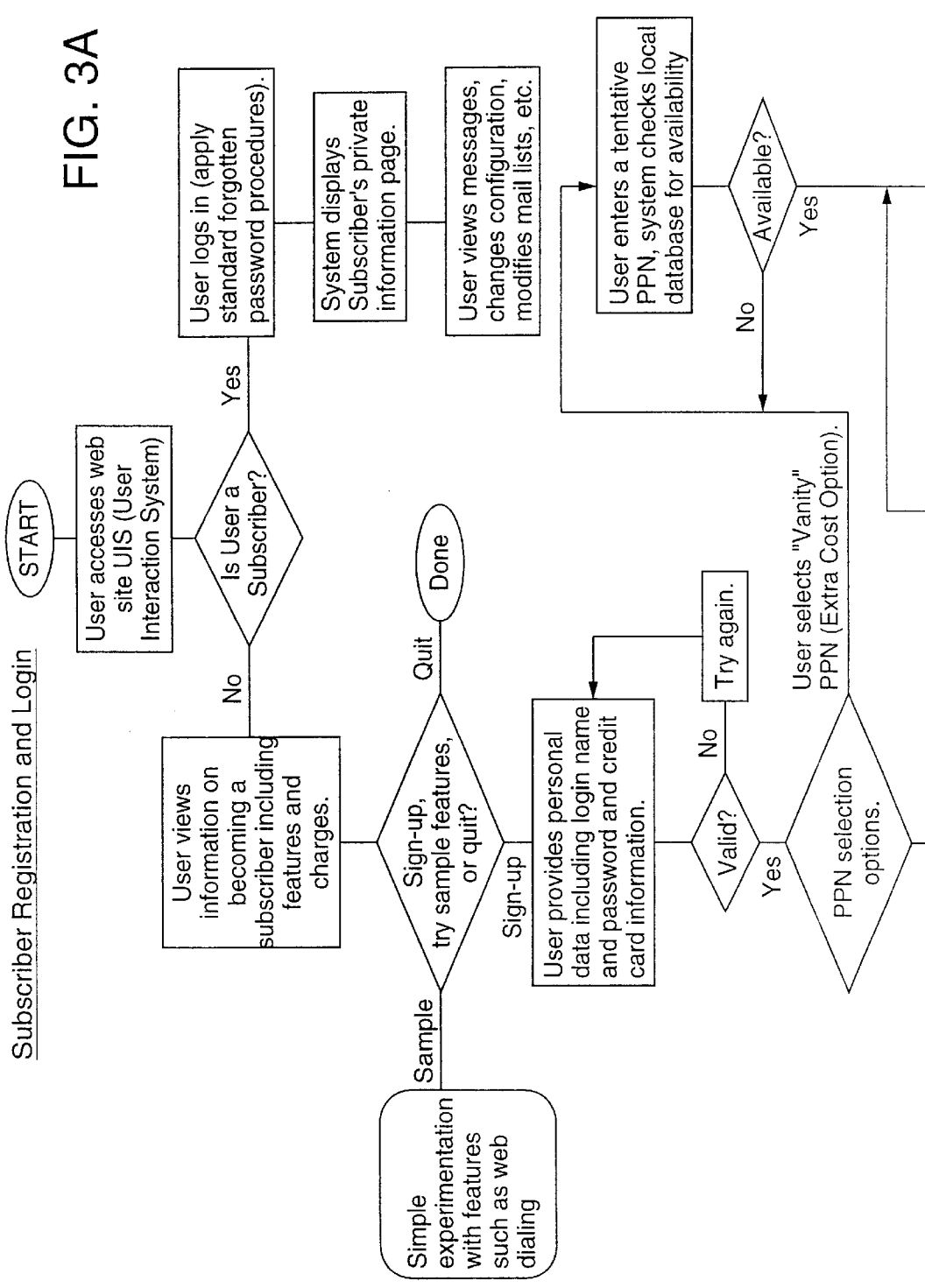
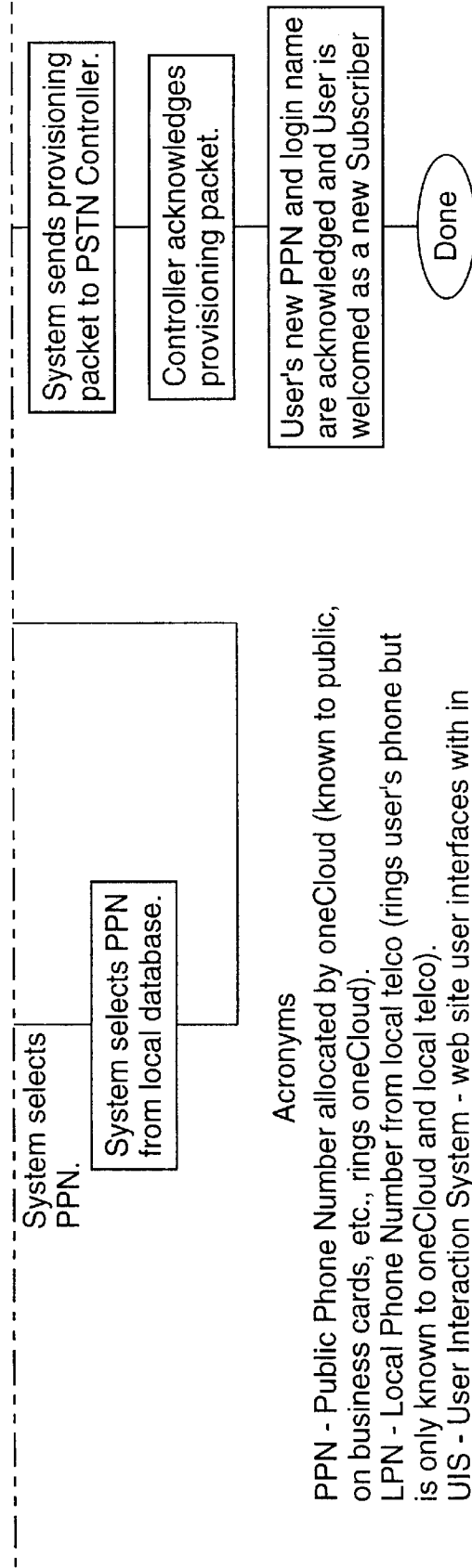


FIG. 2

Subscriber Registration and Login

FIG. 3A





Acronyms

- PPN - Public Phone Number allocated by oneCloud (known to public, on business cards, etc., rings oneCloud).
- LPN - Local Phone Number from local telco (rings user's phone but is only known to oneCloud and local telco).
- UIS - User Interaction System - web site user interfaces with in order to control phone features.
- TAC - Tandem Acces Controller - System that directly accesses the PSTN.

FIG. 3A
FIG. 3B

FIG. 3

FIG. 3B

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