9805085-9
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International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : H04B 7/212, H04Q 7/30 — A1

(11) International Publication Number: WO 97/41650

(43) International Publication Date: 6 November 1997 (06.11.97)

(21) International Application Number: PCT/US96/10355

(22) International Filing Date: 18 June 1996 (18.06.96)

(30) Priority Data:

60/016,491	30 April 1996 (30.04.96)	US
08/641,161	9 May 1996 (09.05.96)	US

(81) Designated States: AU, CA, CN, JP, KR, MX, SG, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Published
With international search report.

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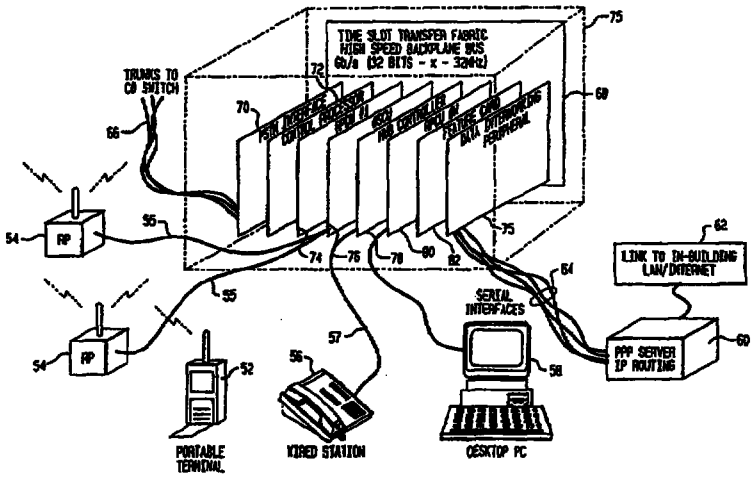
(54) Title: INTEGRATED TELECOMMUNICATION SYSTEM ARCHITECTURE FOR WIRELESS AND WIRELINE ACCESS FEATURING PACS RADIO TECHNOLOGY



(57) Abstract

Disclosed is a telecommunication system (52-82) that is both highly cost effective for small scale applications (for example, those having less than 80 lines), yet field upgrade-expandable via a backplane bus (68) to applications having a significant number of additional lines (for example, 30,000 lines). An integrated voice/data telecommunication system is utilized that is flexible enough to handle low bandwidth (for example 64 kbps mu-law) speech as well as high bandwidth multimedia data switching. The system may be configured as a low cost, standalone PACS system for "village telephony" or "PACS-on-POTS" applications, as an alternative to requirements for PACS infrastructure when appropriate wireless network facilities are unavailable.