9702937-7

RTMP's copy

PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : H04N 7/16, 7/173

A1

(11) International Publication Number: WO 96/21320

(43) International Publication Date: 11 July 1996 (11.07.96)

(21) International Application Number: PCT/US95/15756

(22) International Filing Date: 5 December 1995 (05.12.95)

(30) Priority Data:
367,504 30 December 1994 (30.12.94) US

(71) Applicant: THOMSON CONSUMER ELECTRONICS, INC. [US/US]; 10330 North Meridian Street, Indianapolis, IN 46290-1024 (US).

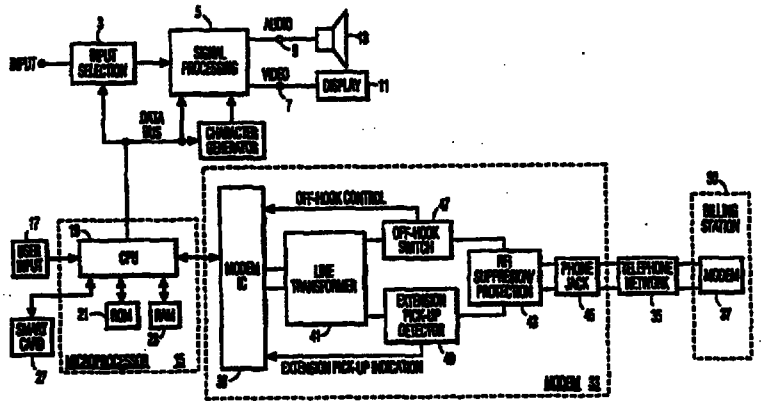
(72) Inventor: KELLY, Michael, Gene; 7784 Foxtail Court, Fishers, IN 46038 (US).

(74) Agents: TRIPOLI, Joseph, S. et al.; GE & RCA Licensing Management Operation Inc., CN 5312, Princeton, NJ 08540 (US).

(81) Designated States: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT, UA, UG, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

Published
With international search report.

(54) Title: MODEM WITH AUTOMATIC CALLBACK PROVISIONS



(57) Abstract

A modem (33) is included in a television receiver for transferring data, such as "pay per view" billing information, to a modem (37) in a billing station during periodic callback operations. The television receiver modem (33) monitors the telephone line (35) for predetermined conditions, such as the presence of high frequency energy or a drop in the telephone line loop current, indicative of telephone use. The television receiver modem (33) will ordinarily inhibit or terminate a callback in order to avoid interfering with normal telephone calls when the predetermined conditions are detected. However, the detection of the predetermined conditions may be caused by telephone network problems and not by normal telephone usage. Accordingly, the modem (33) is controlled to ignore the detection of the conditions after a predetermined number of unsuccessful callbacks due to the detection of the conditions until a successful callback is achieved.