

Title (en)
SECURITY CONTROL SYSTEM

Publication
EP 0206483 A3 19880907 (EN)

Application
EP 86303483 A 19860507

Priority
US 74479685 A 19850613

Abstract (en)
[origin: EP0206483A2] A security and control system for use in a home or building, utilizes a coded audio link between entry detectors/transmitters (12) and relay modules (18), and a digital pulse coded power line communication (PLC) link between the relay modules (18) and a system controller (20) as well as between the system controller (20) and various remotely located slave units (22, 24, 26) which control the energization of lamps, appliance, and alarms. The controller (20) is also adapted to receive coded audio signals directly from an entry detector/transmitter (12). The relay modules (22, 24, 26) and controller (20) include constant false alarm rate receiver for isolating the coded audio signal from background noise, and unique exclusion circuitry for decoding the isolated signal. The PLC messages are generated by impressing a pulse code modulated high frequency carrier signal onto the AC line (30) at selected points in the AC waveform. The location of each carrier frequency pulse relative to the AC line cycle determines the digital value of the pulse. Both before and during a PLC message transmission, the controller (20) and relay modules (22, 24, 26) are adapted to check the status of the AC power line for the presence of either intelligence or excessive noise levels. When operated as a remote control system, unit codes in the PLC messages transmitted by the system controller (20) serve to selectively identify particular slave modules (22, 24, 26). In the security mode, the system has three major states: INSTANT-ARM, ARM-DELAY, and DISARM.

IPC 1-7
G08B 25/00

IPC 8 full level
G08B 13/00 (2006.01); **G08B 25/00** (2006.01); **G08B 25/01** (2006.01); **G08B 25/06** (2006.01)

CPC (source: EP KR)
G08B 13/00 (2013.01 - KR); **G08B 13/1418** (2013.01 - EP); **G08B 25/06** (2013.01 - EP)

Citation (search report)
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DOCDB simple family (application)
EP 86303483 A 19860507; AU 5858886 A 19860612; CA 508197 A 19860502; FR 8608486 A 19860612; JP 13510186 A 19860612; KR 860004228 A 19860529