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(54) Name of Invention

Remote control device

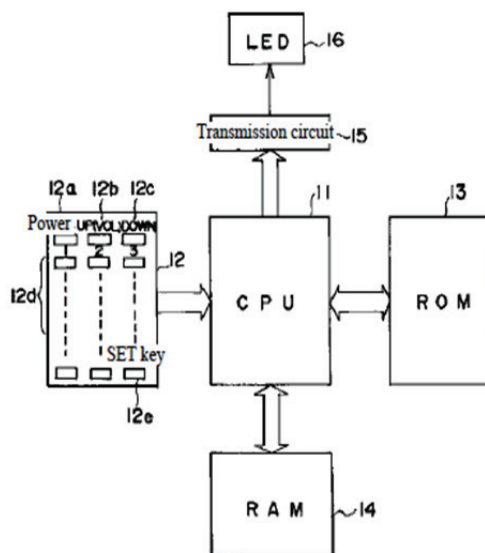
(57) Abstract

Purpose

The purpose of the present invention is [to provide] a remote control device performing remote operation of household electronic devices etc. whereby anyone [can] simply set remote control code(s) of an operated device without requiring troublesome handling or operation.

Composition

A composition whereby remote control codes for each of a multiplicity of manufacturers are previously stored in a ROM 13, and manufacturer data set in an N-register is sequentially updated as "N=1 (Company A), 2 (Company B)..." each time Power key 12e [[TN: should be 12a]] is operated, while in a mode whereby "F=0" is set in the F-register of RAM 14 in response to operation of Set key 12a



[[TN: should be 12e]] of key input part 12, and the power supply code corresponding to said updated manufacturer data N is read from said ROM 13 and sent as a remote control signal, and manufacturer data N is set in respect to said N register of [said] operated device at the time the power supply is switched on to the operated device corresponding to the operation of said Power key 12a.

Scope of Claim for Patent

Claim 1

A remote control device remotely controlling operation of an operated media, comprising

a remote control code memory means previously storing remote control codes corresponding to controlled media of a multiplicity of respectively different manufacturers, and

a manufacturer data memory means storing manufacturer data indicating one manufacturer of said multiplicity of manufacturers, and

a key input means, and

a first remote control transmission means, whereby
manufacturer data stored in said manufacturer data memory means is updated at each key operation of a designated key in said key input means, and
remote control code(s) corresponding to said updated manufacturer data are read from said remote control memory means and transmitted, and

a second remote control transmission means, whereby
remote control code(s) corresponding to manufacturer data indicated by said manufacturer data memory means are read from said remote control code memory means and transmitted according to key operations of keys other than said designated key in said key input means.

Claim 2

A remote control device remotely controlling operation of an operated media, comprising

a remote control code memory means storing remote control codes of a multiplicity of different manufacturers corresponding to respectively different types of operated media, and

a manufacturer data memory means storing manufacturer data corresponding respectively to said different types of operated media, and

a type selection media selecting said different types of operated media, and

a key input means, and

a first remote control transmission means, whereby

manufacturer data stored in said manufacturer data memory means corresponding to said media type selected by said media type selection means is updated at each key operation of a designated key in said key input means, and remote control code(s) corresponding to said updated manufacturer data are read from said remote control memory means and transmitted, and

a second remote control transmission means, whereby

remote control code(s) corresponding to said media type selected by said media type selection means, corresponding to manufacturer data stored in said manufacturer data memory means, are read from said remote control code memory means and transmitted according to key operations of keys other than said designated key in said key input means.

Claim 3

A remote control device remotely controlling operation of an operated media, comprising

a remote control memory means previously storing remote control code(s) corresponding to controlled media of each of a multiplicity of manufacturers, and

a manufacturer data memory means storing manufacturer data indicating one manufacturer of said multiplicity of manufacturers, and

a key input means, and

a first remote control transmission means, whereby

manufacturer data stored in said manufacturer data memory means is updated at each key operation of a designated key in said key input means, and remote control code(s) corresponding to said updated manufacturer data is read and transmitted from said remote control code memory means, and

a second remote control transmission means, whereby

remote control code(s) corresponding to manufacturer data indicated by said manufacturer data memory means is read and transmitted by said remote control memory means according to key operations of keys other than said designated key in said key input means, and

a sound detection means detecting the presence of sound input, and

a manufacturer verification means, whereby manufacturer data stored in said manufacturer data memory means is verified on the basis of results of detection of sound input by said sound volume detection means, at each sending of remote control code(s) corresponding to manufacturer data sequentially updated by means of said manufacturer selection means.

Claim 4

A remote control device remotely controlling operation of an operated media, comprising

a remote control code memory means previously storing remote control code(s) corresponding to controlled media of each of a multiplicity of manufacturers, and

a media data memory means storing media indication data indicating one media among said multiplicity of operated media, and

a remote control receiving means receiving remote control code(s) from outside, and

a match detection means detecting matches between remote control code(s) received by means of said remote control receiving means, and said multiplicity of remote control code(s) stored in said remote control code memory means, and

a media data setting means storing media indication data indicating operated media corresponding to remote control code(s), wherein a match has been detected by said match detection means, in said media data memory means, and

a key input means, and

a remote control transmission means reading and transmitting remote control code(s) corresponding to media indication data indicated by said media data memory means, from said remote control code memory means, according to key operations of said key input means.

Claim 5

A remote control device according to Claim 1, whereby said remote control code memory means, manufacturer data memory means, key input means, remote control transmission means, and manufacturer selection means, are each built into a wristwatch.

Detailed Description of the Invention

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Field of Use in Industry

The present invention relates to a remote control device performing remote control of household electronic devices etc.

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Prior Art

Previously, pure remote control devices have been included with electrical devices such as television receivers or video tape recorders etc., and learning remote controls or ROM remote controls have been provided as remote control devices that can be used in common among different manufacturers or types.

0003

The aforementioned learning remote controllers are designed to receive and store remote control codes sent from a pure remote controller, and to play them back according to key operations, and [thus] can correspond to remote control devices for different devices, and such learning remote controllers must record remote control code sent by each keystroke of each key of the pure remote controller, one keystroke at a time.

0004

For this reason, a very high number of key operations are involved in making remote control code settings corresponding to the aforementioned pure remote controller, which is troublesome and prone to setting errors. On the other hand, the latter [device], a ROM remote controller, previously stores remote control codes for each different manufacturer in internal ROM and the remote control code corresponding to a given manufacturer is transmitted by a designated key operation for an input setting for manufacturer codes corresponding to a desired manufacturer. Thus although such ROM remote controllers do not have troublesome operations involving sequentially storing all remote control code for all keys as in the case of the aforementioned learning remote controller, they do involve the time and effort of knowing who is the manufacturer of the device to be operated, and selecting and setting the manufacturer code for that manufacturer.

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Problem to be Resolved by the Invention

Accordingly, the aforementioned learning remote controllers and ROM remote controllers according to prior art require troublesome operation or time and effort in inputting remote control codes or making settings for manufacturer codes, and therefore devices of this type have problems in being difficult to handle by users who are not familiar with this type of device.

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