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#### (54) APPARATUS AND METHOD FOR CONFIGURATION AND OPERATION OF A REMOTE-CONTROL SYSTEM

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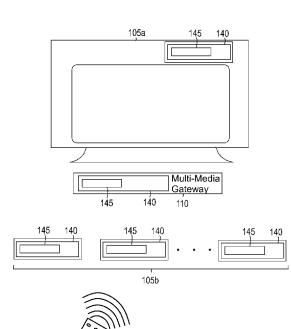
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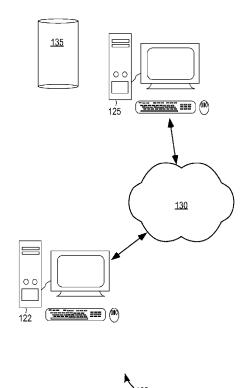
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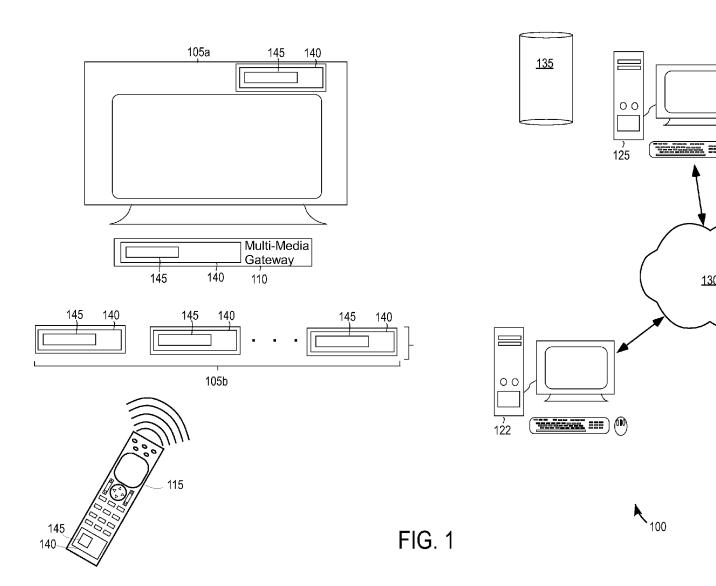
(57) ABSTRACT

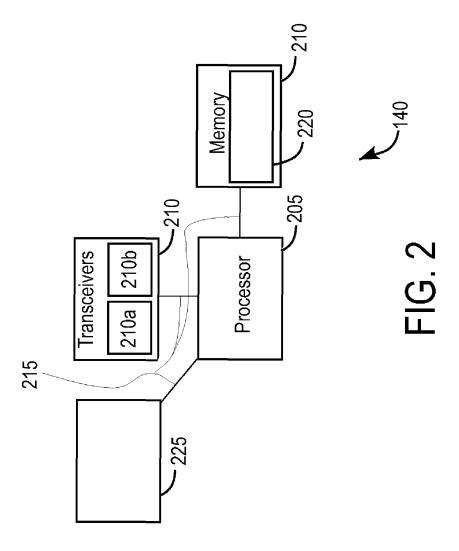
A method for configuring a remote-control system includes querying via a bus a High Definition Multi-Media Interface (HDMI) display for an Extended Display Identification Data (EDID) for the HDMI display; receiving via the bus from the HDMI display the EDID for the HDMI display; and storing via a processor in a memory the EDID and a link between the EDID of the HDMI display a set of command codes configured for controlling the HDMI display.

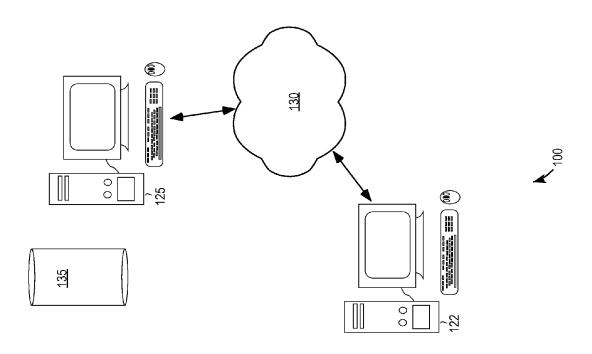


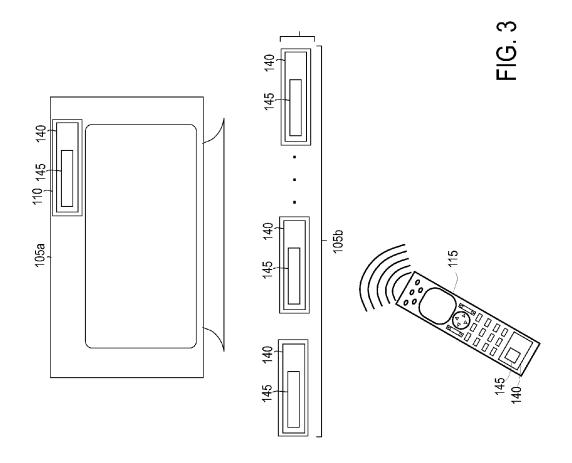














At least one of the remote-control engines (e.g., the remote-control engine operating on the multi-media gateway) is configured to monitor the CEC bus and determine a set of CEC command codes that is transmitted over the CEC bus. The remote-control engine monitoring the CEC command codes is configured to compare the CEC command codes on the bus with sets of known CEC command codes for the HDMI appliances that received the command codes transmitted over the CEC bus. The remote-control engine is configured to identify CEC command codes, which are transmitted over the bus and that are not in the sets of known CEC command codes. The CEC command codes that are unrecognized (i.e., not in the sets of known CEC command codes) are stored in the local memory and are identified therein as being unrecognized The unrecognized CEC command codes may be transferred from the remote-control engine to the remote server. The remote server may query the remote database to determine whether the unrecognized CEC command codes are included in sets of known CEC command codes, which are stored in the remote database. If the unrecognized CEC command codes are included in sets of known CEC command codes stored in the remote database, the remote server may be configured to transfer function information for the unrecognized CEC command code to the remote-control engine so that the remote-control engine will thereafter recognize the previously unrecognized CEC command codes. The remote-control engine may be configured to store the function information and the CEC command code associated with the function information in the local memory If the remote server determines that the unrecognized CEC command codes are not stored in the remote database, the remote server may store the unrecognized CEC command codes in the remote database with information indicating that these CEC command codes are unrecognized. FIG. 4



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