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(54) Title: LOW LATENCY COMMAND PROPAGATION PROTOCOL

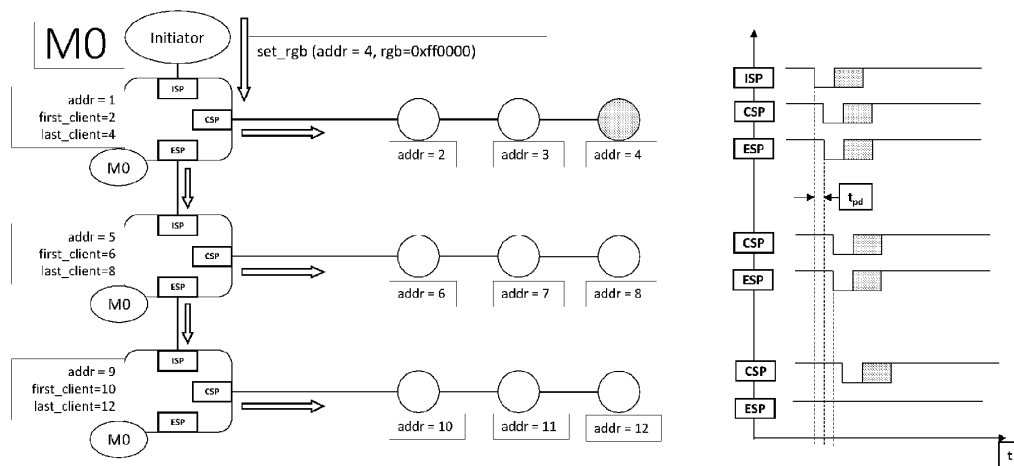


Fig.: 8

(57) Abstract: The present invention is directed towards a system arrangement and method which allows the operation of units in a fail safe manner and at low latency behavior. The teachings suggest a specific protocol which allows switching and routing of packages for addressing and controlling light emitting diodes and reading out sensors. The information is distributed according to very specific requirements of the underlying topology and application domain. The automotive sector poses very restrictive requirements especially security relevant devices are involved. As light emitting diodes and sensors may affect the reliability of security features in a vehicle specialized approaches have to be provided considering both real-time requirements and reliability. One of the provided advantages is that for instance a branch device can change its operation mode without an explicit command but, in general, a command may provide an expiry condition of a mode after which the mode returns to its previous mode. Such an expiry condition may be the reception of a predefined number of specific network events. In addition, a computer program product is proposed comprising control commands which carry out the method or operate the device.

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